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GEOLOGICAL SURVEY OF ALABAMA
WALTER B. JONES, STATE GEOLOGIST

Information Series 17

GEOLOGY AND GROUND-WATER RESOURCES OF CALHOUN COUNTY ALABAMA

An Interim Report

By James C. Warman, Lawson V. Causey
James H. Burks, and Helmut W. Ziemand

Prepared by the
United States Geological Survey
in cooperation with
the Calhoun County Board of Commissioners
the city of Anniston
and the
Geological Survey of Alabama

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LETTER OF TRANSMITTAL

University, Alabama

February 29, 1960

Honorable John M. Patterson
Governor of Alabama
Montgomery, Alabama

Sir:

I have the honor to transmit herewith the manuscript of a report entitled "Geology and Ground-Water Resources of Calhoun County, Alabama, An Interim Report" by James C. Warman, Lawson V. Causey, James H. Burks, and Helmut W. Ziemand, with the request that it be printed as Information Series 17 of the Geological Survey of Alabama.

Respectfully,

WALTER B. JONES

State Geologist

CONTENTS

Page

Abstract 1
Introduction 1
    Purpose and scope of investigation 2
    Previous investigations 3
    Acknowledgments 3
    Location and extent of area 3
    Topography and drainage 3
    Climate 5
    Well and spring numbering system 6
Geology 6
    Geologic formations and their water-bearing properties 6
        Precambrian(?) to Carboniferous(?) 6
            Talladega slate 6
        Cambrian system 6
            Weisner formation 6
            Shady dolomite 8
            Rome formation 8
            Conasauga formation 8
        Cambrian or Ordovician system 9
            Cambrian or Ordovician dolomite 9
        Ordovician system 9
            Longview and Newala limestones 9
            Lenoir limestone 9
            Athens shale 10
            Little Oak limestone 10
            Chickamauga limestone 10
        Silurian system 10
            Red Mountain formation 10
        Devonian system 11
            Frog Mountain sandstone 11
            Chattanooga shale 11
        Mississippian system 11
            Fort Payne chert 11
            Floyd shale 12
            Parkwood formation 12
        Pennsylvanian system 12
            Pottsville formation 12
        Tertiary system 12

CONTENTS

Page

Ground water 13
- Source 13
- Occurrence 13
- Water table 13
- Recovery of water 14
  - Drilled wells 14
  - Dug wells 15
  - Springs 15

Quality of water 16

Summary 17

Selected references 18

ILLUSTRATIONS

Plate 1. Map showing location of wells and springs in Calhoun County, Ala. . . . . In pocket

Figure 1. Index map of Alabama showing area covered by the present report and areas in which other ground-water studies are in progress . . 4

2. Diagram showing well and spring numbering system in Calhoun County, Ala 7

TABLES

Table 1. Records of wells and springs in Calhoun County, Ala 20

2. Chemical analyses of water from selected springs in Calhoun County, Ala 67

GEOLOGY AND GROUND-WATER RESOURCES OF CALHOUN COUNTY ALABAMA

An Interim Report

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ABSTRACT

A study of the geology and ground-water resources of Calhoun County in northeastern Alabama was begun in July 1956 by the U. S. Geological Survey in cooperation with the Calhoun County Board of Commissioners, the city of Anniston, and the Geological Survey of Alabama.

Data were collected from 996 wells and springs in Calhoun County. The county is underlain by rock formations that have been folded and thrust faulted. The fault zones form reservoirs for large quantities of ground water. Abundant supplies are available also from several of the rock formations--the Shady dolomite, Rome shale, Conasauga formation, and Cambrian or Ordovician dolomite. These formations are relatively thick and have great areal extent. The Fort Payne chert and Newala limestone also furnish abundant supplies of ground water, but these formations are not so extensive in their areas of outcrop. The quality of the ground water is generally good, except for water from the Conasauga formation, which is hard, and water from the Floyd shale, which is very hard and contains excessive amounts of iron.

INTRODUCTION

Ground water in large quantities is being pumped from wells and springs in Calhoun County for municipal, agricultural, industrial, and domestic supplies. The increasing use of ground water due to a growth in population and to industrial expansion is creating many problems. For example, in 1954 the municipal water supply for the city of Piedmont became inadequate because of increased demands on the system concurrent with a 4-year drought; in 1955 the National Gypsum Co. had difficulty in locating an adequate ground-water supply from drilled wells.

PURPOSE AND SCOPE OF INVESTIGATION

This study of the geology and ground-water resources of Calhoun County was begun in July 1956 by the U. S. Geological Survey in cooperation with the Calhoun County Board of Commissioners, the city of Anniston, and the Geological Survey of Alabama. The work is under the direct supervision of W. J. Powell, district geologist in charge of ground-water investigations in Alabama. The purpose of the study is to collect data on the ground-water resources of Calhoun County and to relate these data to the geology of the area. The objectives of the study are to:

1. Inventory selected drilled and dug wells to determine their location, construction, depth, source of supply, water level, yield, and use.

2. Inventory all springs to determine their distribution; location; type of improvement structure, if any; water temperature; discharge; and use.

3. Determine the character, distribution, thickness, and structure of the rock formations; construct a detailed geologic map of the county; and relate the geologic data to the occurrence, movement, and availability of ground water.

4. Test drill in areas where additional geologic and hydrologic information is needed.

5. Make pumping tests to determine the hydrologic properties of the water-bearing formations.

6. Make periodic measurements of water levels in wells developed in the principal water-bearing formations and operate recording gages in key wells to determine the seasonal fluctuations and the effect of large-scale withdrawal on water levels and spring flows. Map the water table during periods of annual high and low ground-water levels.

7. Determine the chemical quality of the water from the principal water-bearing formations.

8. Prepare a detailed report on the geology and ground-water resources of the county.

This interim report contains data on 850 wells and 146 springs in Calhoun County (tables 1-2, fig. 3).

PREVIOUS INVESTIGATIONS

In 1928-29 W. D. Johnston made a reconnaissance study of ground water in northern Alabama and recorded data on 46 wells and 22 springs in Calhoun County. The results of this study were published in 1933 as Alabama Geological Survey Special Report 16, "Ground Water in the Paleozoic Rocks of Northern Alabama."

Reports describing the geology of Calhoun County include Alabama Geological Survey Special Report 9, "The Valley Regions of Alabama, Part II, on The Coosa Valley Region," by Henry McCalley, and Alabama Geological Survey Special Report 14, "Geology of Alabama," by G. I. Adams, Charles Butts, L. W. Stephenson, and C. Wythe Cooke.

ACKNOWLEDGMENTS

The authors express appreciation to Mr. Carl D. Pace, drilling contractor, Oxford, Ala., and the Adams-Massey Co., Carrollton, Ga., who furnished drillers' logs, drill cuttings, and other material on wells drilled for private, industrial, and municipal use in the county. Acknowledgment is made also to the residents of Calhoun County who furnished information on wells and springs, use of water, and other significant data.

LOCATION AND EXTENT OF AREA

Calhoun County, in northeastern Alabama, has an area of 610 square miles. It is bounded on the east by Cleburne County, on the west by the Coosa River and St. Clair County, on the north by Cherokee and Etowah Counties, and on the south by Talladega County (fig. 1).

TOPOGRAPHY AND DRAINAGE

Calhoun County lies almost entirely within the Ridge and Valley physiographic province of the Appalachian Highlands. A small area in the eastern part of the county is in the Piedmont province (Fenneman, 1938).

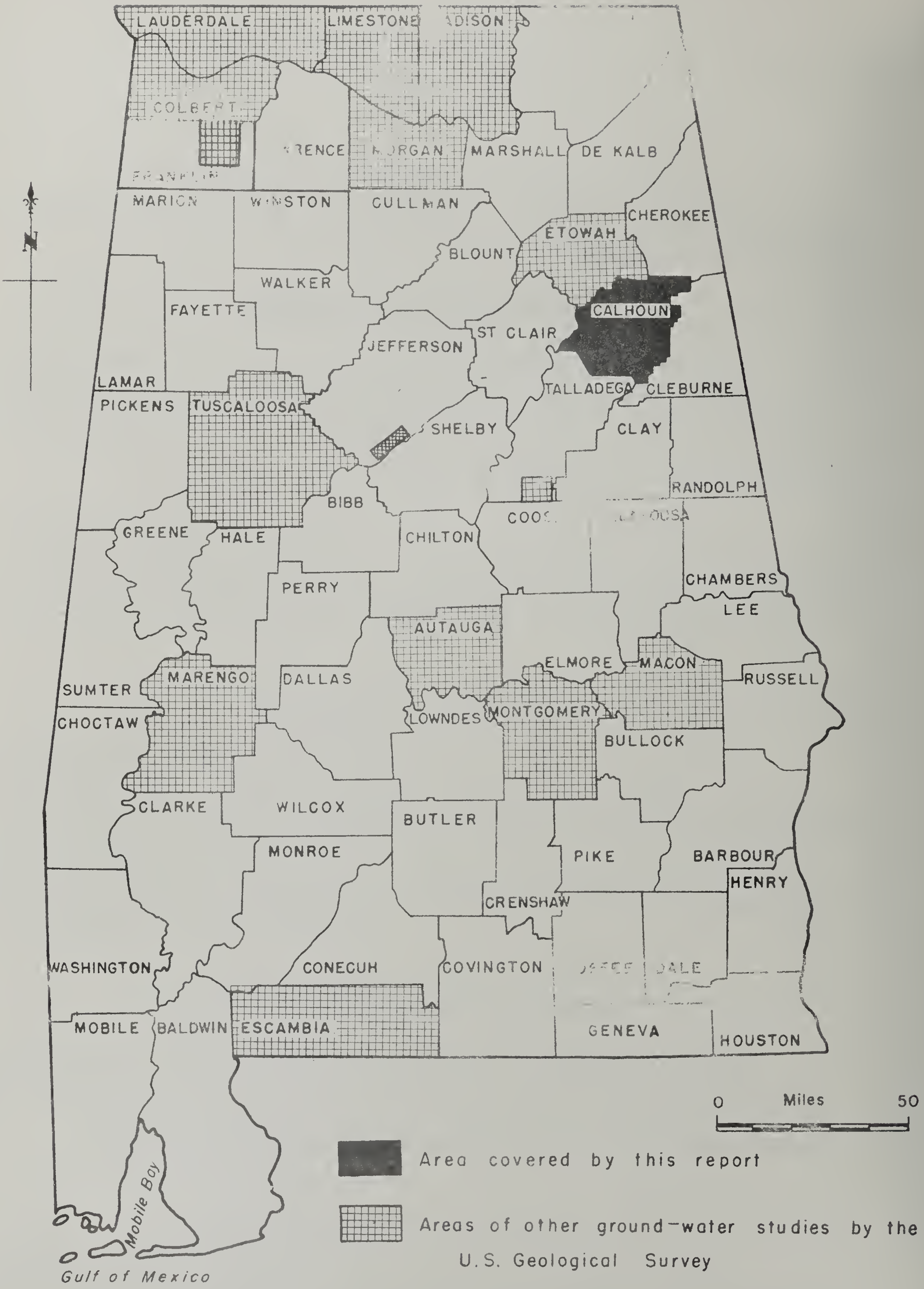

Figure 1. — Index map of Alabama showing area covered by the present report and areas in which other ground-water studies are in progress.

The topography ranges from flat to gently rolling in the western part and is mountainous in the eastern part. Maximum local relief is about 1,500 feet, and the highest points are about 2,100 feet above sea level along the crest of Choccolocco Mountain.

The county is drained by the Coosa River and its tributaries. The central and northwestern parts are drained westward by Ohatchee Creek; the northeastern part is drained northward by Nances Creek; the eastern and southeastern parts are drained southward by Choccolocco Creek; and the southwestern part is drained westward by Cane Creek.

CLIMATE

Calhoun County has a warm temperate climate. The mean annual temperature and precipitation are 62.5°F and 52.2 inches, respectively. The average monthly precipitation for the period of record, the monthly precipitation in 1956, and the departures from average are as follows:

Precipitation at Anniston, Ala.
(inches)

	Average*	1956	Departure	Cumulative departure
Jan.	5.08	2.04	-3.04	-3.04
Feb.	5.38	8.32	2.94	- .10
Mar.	6.09	7.19	1.10	1.00
Apr.	4.72	5.62	.90	1.90
May	3.73	2.11	-1.62	.28
June	3.99	3.06	- .93	- .65
July	4.83	2.47	-2.36	-3.01
Aug.	4.25	1.66	-2.59	-5.60
Sept.	2.62	2.16	- .46	-6.06
Oct.	2.58	1.83	- .75	-6.81
Nov.	3.81	2.82	- .99	-7.80
Dec.	5.12	4.64	- .48	-8.28
Total	52.20	43.92	-8.28	-----

* Based on 10 years of record at the U. S. Department of Commerce, Airway Communication Station at the Anniston Municipal Airport, Oxford, Ala., from 1945 to 1955.

WELL AND SPRING NUMBERING SYSTEM

The numbering of wells and springs in Calhoun County is based on the Federal system of land subdivision which divided the public land into townships approximately 36 square miles in area. In the well and spring numbering system used in this report, the townships of Calhoun County are designated by letters, in alphabetical order, beginning with "A" in the northeastern township. The wells and springs within a township are numbered consecutively, each number being prefixed by the letter identifying the township; for example, A-1, A-2, A-3 (fig. 2).

GEOLOGY

The stratigraphic and structural relationships of the rocks in Calhoun County are typical of the Ridge and Valley province of the southern Appalachian Mountains. Consolidated rocks that range in age from Precambrian(?) to Pennsylvanian have been sharply folded into northeast-trending synclines and anticlines complicated by thrust faults. The thrust faults are the predominating structural features of the area.

GEOLOGIC FORMATIONS AND THEIR WATER-BEARING PROPERTIES

Precambrian(?) to Carboniferous(?)

Talladega Slate

The Talladega slate of Precambrian(?) to Carboniferous(?) age crops out near the eastern edge of the county and is composed of an unknown but comparatively large thickness of dark-gray to black sericitic slate and interbedded sandstone, quartzite, and conglomerate. Thrust faulting has moved the Talladega northwestward so that it overlies younger Cambrian and Ordovician formations. Wells and springs developed in the Talladega furnish sufficient water of good quality for farm and domestic purposes. Field analyses of water samples from 14 wells indicate an average hardness of 44 ppm (parts per million).

Cambrian System

Weisner Formation

The Weisner formation consists of about 2,500 feet of buff sand-

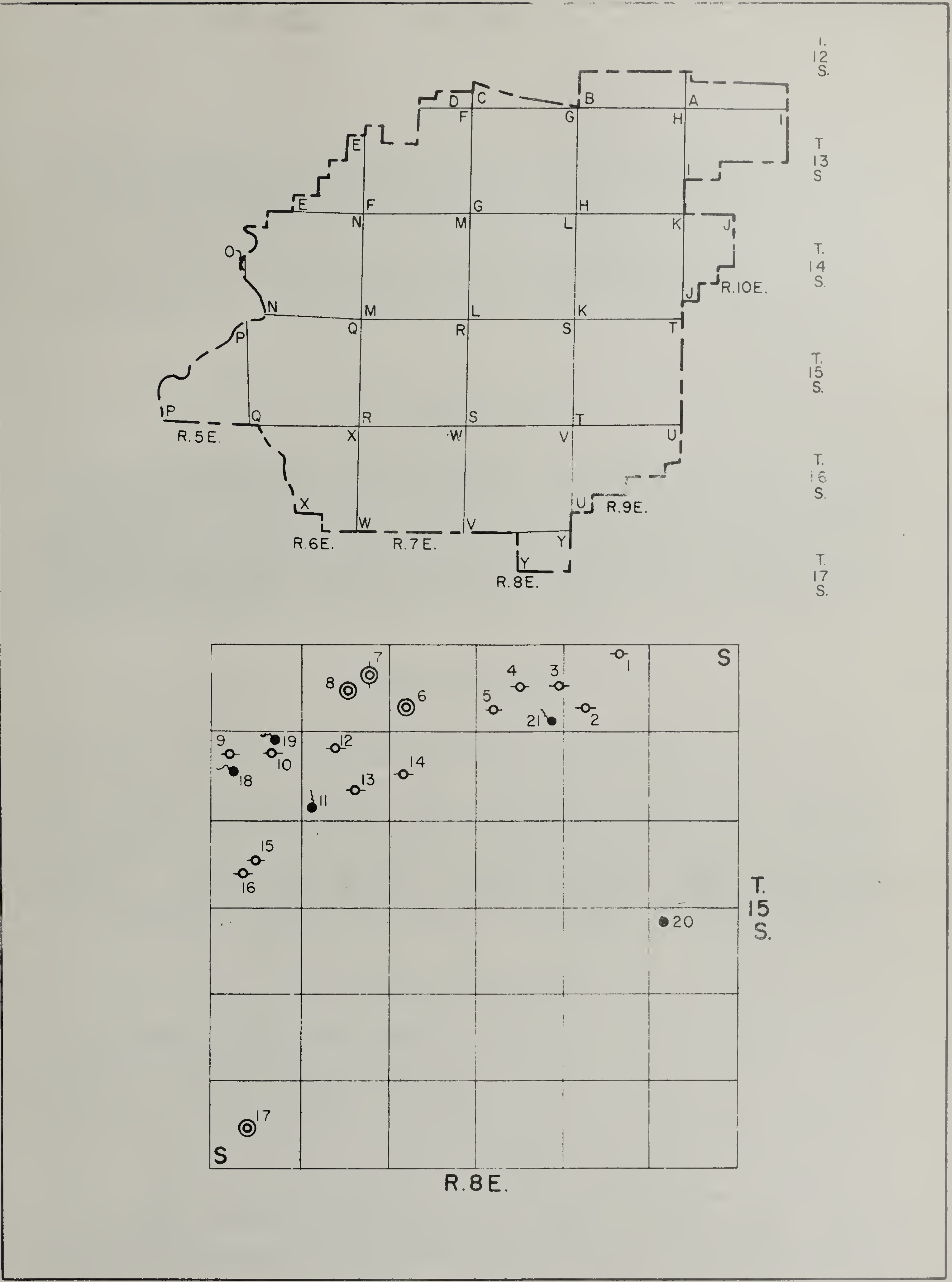

Figure 2. --Diagram showing well and spring numbering system in Calhoun County, Ala.

stone, shale, and quartzite. Locally the formation contains deposits of limonite, manganese "wad," bauxite, and hematite. Success in obtaining a ground-water supply from the Weisner depends upon the penetration of fractures which, in places, may yield an abundance of water of good quality to wells. Eighteen springs flowing from the Weisner have an average discharge of 44 gpm (gallons per minute). Field analyses of water samples from 22 wells and 15 springs show an average hardness of 37 ppm.

Shady Dolomite

Overlying the Weisner formation is the Shady dolomite, which is composed of about 500 feet of yellowish to light-gray fine-grained medium- to thick-bedded limestone and dolomite. Ground water is readily obtainable from the Shady dolomite, and 21 springs that discharge from it average 320 gpm. Field analyses of water samples from 47 drilled wells, 12 dug wells, and 18 springs indicate an average hardness of 105 ppm.

Rome Formation

The Rome formation of Early Cambrian age consists of about 1,000 feet of reddish shale and sandstone interbedded with dark-gray and blue limestone and dolomite. The limestone and dolomite would probably yield large amounts of water of good quality to wells. The shale and sandstone would probably yield smaller amounts of moderately mineralized water. Discharges of 18 springs flowing from the Rome average 114 gpm. Field analyses of water samples from 76 drilled wells, 14 dug wells, and 13 springs average 124 ppm in hardness.

Conasauga Formation

The Conasauga formation of Middle and Late Cambrian age is composed of an undetermined thickness of dark-gray and dark-blue argillaceous limestone and dolomite and minor amounts of shale. The shale becomes more abundant to the northwest. The limestone and dolomite would probably supply abundant ground water to wells that penetrate fractures or solution channels. Where these fractures or solution openings have not been developed in the rocks, little or no ground water is available. Thirty-eight springs, which represent about one-fourth of the known springs in Calhoun County, flow from the Conasauga, and they have an average discharge of 426 gpm. Field analyses of water samples from 169 drilled wells, 19 dug wells, and 33 springs developed in the Conasauga show an average hardness of 164 ppm.

Cambrian or Ordovician System

Cambrian or Ordovician Dolomite

The Cambrian or Ordovician dolomite is about 3,000 feet thick and contains abundant chert. This great thickness of rock forms a generally poor aquifer except locally, where fractures permit movement of ground water. Springs that flow from these fractures or from solution channels commonly have abundant yields. Among 18 inventoried springs issuing from the Cambrian or Ordovician dolomite, the average discharge was 450 gpm. In many places shallow domestic wells can be developed in the porous chert-gravel layer above bedrock. Field analyses of water samples from 105 drilled wells, 21 dug wells, and 12 springs indicate an average hardness of 128 ppm.

Ordovician System

Longview and Newala Limestones

The Longview and Newala limestones of Ordovician age commonly overlie the Cambrian or Ordovician dolomite in other parts of northern Alabama. However, the Longview is probably not present in Calhoun County. The Newala limestone is about 400 to 600 feet thick and consists of thick-bedded compact pearl-gray, dark-gray, and bluish-gray limestone and minor amounts of dolomite. The Newala would probably yield abundant quantities of ground water to wells that penetrate fractures or solution cavities. Four springs known to flow from the Newala have an average discharge of 1,700 gpm. Analyses of water samples from 5 drilled wells, 3 dug wells, and 4 springs indicate an average hardness of 133 ppm.

Lenoir Limestone

The Lenoir limestone occurs between the Newala limestone and the younger Chickamauga limestone in an area that extends from the Coosa River along the Etowah-Calhoun County boundary to the north-central part of Calhoun County. It is reported (Adams and others, 1926,

p. 104) to be a finely crystalline medium- to thick-bedded limestone of low magnesium content. Ground water could probably be obtained from wells that tap fractures and solution openings below the water table in the limestone.

Athens Shale

The Athens shale is about 200 feet thick and is composed of black fissile shale that contains beds of dark-colored impure limestone. Because of its low permeability and small areal extent, the Athens shale is not an important aquifer.

Little Oak Limestone

The Little Oak limestone is a dark coarsely crystalline thick-bedded limestone which may yield abundant ground water through fractures and solution channels. Winn Spring (N-27, table 1), which issues from the Little Oak limestone, discharges about 75 gpm. A partial chemical analysis of water from this spring indicates a hardness of 123 ppm (table 2). In 1957 Winn Spring was developed as a municipal water supply for the town of Ohatchee.

Chickamauga Limestone

The Chickamauga limestone, the youngest formation in the Ordovician system, consists of an undetermined thickness of red shale, coarse sandstone, and thin impure limestone. Secondary calcite has been deposited along bedding planes and fractures in the shale, and weathering has produced a finely ribbed surface on the outcrop. Only one spring (N-75) is known to flow from the Chickamauga in Calhoun County, and no wells are known to be developed in this formation. Consequently, it is considered a poor aquifer.

Silurian System

Red Mountain Formation

The Silurian system includes only the basal part of the Red Mountain formation, which consists of about 30 feet of light-gray to white thick-bedded to massive quartzitic sandstone overlain by about 20 feet of light-brown thin-bedded sandstone interbedded with light-brown shale. No wells are known to obtain water from the Red Mountain formation, nor do any springs issue from it; therefore, it appears to be a poor aquifer.

Devonian System

Frog Mountain Sandstone

The Frog Mountain sandstone is about 200 feet thick in northern Calhoun County and consists of coarse hard sandstone cemented with silica and interbedded with siliceous shale and very coarse thick-bedded friable sandstone. The Frog Mountain sandstone is a poor aquifer, probably as the result of the siliceous cementation of the sand grains, which has greatly decreased the porosity and permeability of the beds.

Chattanooga Shale

The Chattanooga shale overlies the Frog Mountain sandstone and has been identified in a few localities in Calhoun County. The Chattanooga is typically a black fissile shale; however, in this area it is commonly a light-greenish-gray clayey shale 1 to 3 feet thick, which in places contains a zone of thin-bedded multicolored shale. This formation is not important as an aquifer in Calhoun County.

Mississippian System

Fort Payne Chert

The Fort Payne chert overlies the Frog Mountain sandstone, except in those areas where the thin Chattanooga shale intervenes. The Fort Payne is about 350 feet thick in northern Calhoun County and is composed of fossiliferous, siliceous limestone which weathers to dark-colored flinty chert and a crumbly rusty-brown soil. Eleven springs are known to flow from the Fort Payne, and they have an average discharge of 97 gpm. Field analyses of water samples from 13 drilled wells, 4 dug wells, and 10 springs developed in the Fort Payne show an average hardness of 129 ppm.

Floyd Shale

The Floyd shale overlies the Fort Payne chert and crops out in most of the broad valley areas in the northwestern part of the county. The Floyd includes about 2,000 feet of black to greenish-black thin-bedded to fissile shale interbedded with thick- to thin-bedded sandstone and argillaceous limestone. Yields from the Floyd are generally small, and in most places the water is highly mineralized. Wells drilled into the limestone beds would probably yield adequate supplies for domestic use, but the number of these beds and their stratigraphic position and lateral extent can be determined only by test drilling. Seven springs believed to flow from the Floyd have an average discharge of 39 gpm. Field analyses of water samples from 140 drilled wells, 81 dug wells, and 7 springs developed in the Floyd show an average hardness of about 209 ppm. Analysis of water from well M-22 indicates an exceptional hardness of 3,000 ppm.

Parkwood Formation

The Parkwood formation consists of about 350 feet of gray feldspathic silica-cemented fossiliferous sandstone and gray clayey shale. The Parkwood is known to yield water to only one well (N-8). This well was drilled to a depth of 59 feet and the water has a hardness of 142 ppm. No springs are known to flow from the Parkwood in Calhoun County.

Pennsylvanian System

Pottsville Formation

An unknown thickness of the Pottsville formation, composed of gray sandstone, shale, and coal(?) is exposed overlying the Parkwood in an uninhabited area. Ground water occurs in the Pottsville in fractures and openings developed along bedding planes. However, probably only small quantities could be obtained from wells or springs tapping this formation because of generally low permeability.

Tertiary System

Unconsolidated surficial detrital deposits of Tertiary age consist of gravel beds and stream-channel deposits of quartzite pebbles and boulders. The small thickness and areal extent of these deposits make them unimportant as aquifers in this area. Ground water from these beds usually has a high content of iron.

GROUND WATER

SOURCE

In Calhoun County ground water is derived from precipitation, almost entirely in the form of rain. Part of the precipitation is carried away by surface streams, part is evaporated directly, and part percolates into the soil. Some of the water entering the soil is either transpired or evaporated, and the rest seeps by gravity through the rocks downward to the zone of saturation, thus becoming ground water.

OCCURRENCE

The rocks in the earth's crust are not solid, but contain many openings, such as cavities, fractures, and pores, or interstices. Porosity is the property of containing openings and is a measure of the percentage of openings in the total volume of the rock. Rocks differ greatly as to the size, number, and arrangement of openings. In unconsolidated sediments such as sand and gravel, water is contained in the original pore spaces between the grains. Openings of this type are termed "primary porosity." In consolidated rocks the primary porosity has been reduced by heat and pressure of metamorphism and by cementation. "Secondary porosity" consists of fractures and of solutional openings developed along bedding planes, foliation planes, and in shear zones. The permeability of an aquifer is its ability to transmit water under pressure. To obtain large yields, wells must develop water from zones of high permeability.

WATER TABLE

To obtain water a well must penetrate the zone of saturation, which is defined as the zone in which the openings are filled with water. The upper surface of the zone of saturation is called the "water table." It is not stationary or level, but is a fluctuating, sloping surface that has irregularities comparable with and related to those of the land surface. The shape and fluctuations of the water table are dependent upon the topography, rock structure, porosity, permeability, and amount and distribution of recharge and discharge.

Fluctuations of the water table indicate variations in ground-water storage. These variations are caused by changes in recharge and discharge, both natural and artificial. In Calhoun County the water table usually is highest during late March or early April and lowest in November. Decreased precipitation, increased evaporation and transpiration, maximum artificial discharge, and continuous natural drainage of the ground water lower the water table during the growing season. During the winter and early spring, rainfall is commonly abundant and, after first replenishing any soil-moisture deficiency that may have developed during the preceding dry months, recharges the ground-water reservoir and produces a rise in the water table. Topography, vegetation, cultivation, and the physical properties of the soil and subsoil influence the amount of ground-water recharge.

RECOVERY OF WATER

Ground water is obtained from wells and springs. To obtain large or sustained yields from wells it is generally necessary to drill to sufficient depth to penetrate water-bearing fractures or other openings in the bedrock. As pumping lowers the water level in the well, water from the surrounding aquifer flows toward the well, thus producing a cone of depression in the water table with the pumped well at the center. The drawdown may be rapid when pumping is started, but it gradually declines until the pumping level becomes nearly stationary, provided the well is pumped at a rate within the capacity of the aquifer to transmit water. If this capacity is exceeded, the water level will continue to lower and the yield will decrease. The maximum yield of a well depends on the thickness and permeability of the water-bearing beds and on their lateral extent. Data from 850 wells and 146 springs are given in table 1, and the locations of these wells and springs are shown on plate 1.

Drilled Wells

A study of 626 drilled wells in Calhoun County has furnished the largest part of the ground-water data in this report. Most of these wells were drilled by cable-tool rigs and range in diameter from 4 to 12 inches; their depths range from 26 to 900 feet and average about 100 feet. About 95 percent of the wells have casings which are installed through the soil zone and seated in bedrock. The lower parts of the wells are left open. Some wells drilled in brecciated fault zones are cased completely and may be finished with or without slotted casing. About 85 percent of the wells in use are equipped with deep-well jet pumps, and about 7 percent have deep-well turbine or cylinder pumps. The rest have no pumps, and water is taken from them with buckets or bailers. Information based on a few bailing tests indicates that the yields of domestic wells range from 2 to 25 gpm. The yields of industrial wells, based on pumping tests, are as high as 770 gpm (W-20). Many of the more productive industrial wells are drilled into the thick (about 500 feet) highly fractured shear zone of the Jacksonville thrust fault. Maximum yields are obtained near the base of the fractured zone. Municipal water supplies for the towns of Hobson City (V-24) and Weaver (S-6), which have estimated populations of 800 and 700, respectively, are obtained from drilled wells.

Dug Wells

In general, dug wells in the area have low yields, but they are usually adequate for domestic and small farm needs. However, many of these wells go dry during prolonged droughts. Well I-13 (table 1) in Piedmont is in striking contrast. About 1890 this well was dug to a depth of 85 feet into a fault zone in the Conasauga formation, and sufficient water was obtained to supply a cotton mill and a mill town of about 150 houses. The 224 dug wells inventoried in Calhoun County range in depth from 12 to 85 feet and in diameter from 18 to 60 inches. Most of these wells are constructed with a covered housing of some type and are equipped with manual lifts (bucket). A few are curbed all the way from the ground surface to the bottom.

Springs

One hundred and forty-six springs were inventoried. About 80 percent of them are used for domestic, farm, stock, municipal, industrial, and recreational supplies. Four commercial swimming and (or) fishing lakes (F-55, H-43, K-54, and T-51) and the Oxford Lake Swimming Pool (V-46) are supplied by water from springs, as are the lakes at Boy Scout Camp Zinn (V-61 and 63) and Girl Scout Camp Cottaquila (K-56, 58, and 59). Eastaboga Spring (X-20) supplies water for use at the State Fish Hatchery. Cedar Springs (L-14) supplies the Cedar Springs School. The Piedmont City Spring (I-14) and Blue Spring (V-48) supply industrial water to the Piedmont Ice and Coal Co. and the Southern Mills Corp.

Coldwater Spring (W-12), which is the largest and most heavily utilized spring in the county, is the source for the Anniston (population 54,000) municipal supply. This spring, which flows from the brecciated zone of the Jacksonville fault, has a minimum discharge of about 22 mgd (million gallons per day). During periods of peak demand about 11 mgd is used by the city. The city of Jacksonville, second largest in the county, gets its water supply from Big Spring (L-21), which has an average discharge of about $1\frac{1}{2}$ mgd. In October 1957 the town of Ohatchee began pumping water from Winn Spring (N-27) through a new municipal system in order to supply a population of about 450. Until 1954 Piedmont, the third largest city in the county, obtained its municipal water supply from the Piedmont City Spring (I-14), but a 4-year drought concurrent with increasing demands on the municipal water system forced the city to develop a new source of water from Terrapin Creek.

QUALITY OF WATER

Water that falls as rain or snow contains only small amounts of dissolved matter, but upon reaching the ground it begins to dissolve minerals from the soil and the rocks. The chemical quality of ground water depends upon the composition of the rocks with which the water comes in contact, the length of time the water is in contact with the rocks, and the solvent ability of the water. The principal factor controlling the solvent ability of water is its content of carbon dioxide, derived from the atmosphere and the soil.

The chemical quality of water may limit its use. For example, according to the U. S. Public Health Service's Drinking Water Standards of 1946, domestic and municipal supplies preferably should contain less than 500 ppm of dissolved solids (but as much as 1,000 ppm is permissible), 250 ppm of chloride, 250 ppm of sulfate, 125 ppm of magnesium, 1.5 ppm of fluoride, and 0.3 ppm of iron and manganese together. Excessive hardness in water is undesirable because of the soap-consuming and scale-forming properties of hard water.

Many industrial users require water of a certain quality. The hardness, content of iron and chloride, and temperature of the water are important. Temperatures of ground water in wells and springs in Calhoun County range from 56° to 70°F and average 61°.

Results of field chemical analyses of water samples are given in table 1. These field analyses are only approximate, but are useful as an indication of relative amounts of dissolved minerals in the water. The chloride reported in field analyses is often erroneously high, but in general the chloride content of ground water in Calhoun County is very low, less than 10 ppm. Most of the water-bearing formations in the area yield water that has a hardness of less than 150 ppm. The average hardness of water sampled from the Conasauga formation is 164 ppm; however, other objectionable chemical constituents usually are not present in the water from this formation. The Floyd shale yields water that is very hard, averaging more than 200 ppm in hardness, and in addition commonly has high concentrations of iron and other minerals which limit the usefulness of the water.

Chemical analyses of 13 samples of water from springs in Calhoun County show no objectionable characteristics except hardness (table 2). All the samples tested were moderately hard to hard, ranging from 92 to 151 ppm in hardness. Although the 0.15 ppm of iron reported from Coldwater Spring (W-12) appears high in comparison with the iron content shown by the other 12 analyses, this amount of iron is less than the recommended limit.

The specific conductance (the ability of a solution to conduct an electric current) was determined for each sample. The specific conductance is a general indication of the amount of mineral matter dissolved in a water. The dissolved solids, in parts per million, in natural waters of moderate mineral content may be computed approximately by multiplying the specific conductance by 0.6.

SUMMARY

Calhoun County is underlain by rock formations which have been folded and thrust faulted. The fault zones form reservoirs for large quantities of ground water. Abundant supplies are available also from several of the rock formations--the Shady dolomite, Rome shale, Conasauga formation, and Cambrian and Ordovician dolomite. These formations are relatively thick and of great areal extent. The Fort Payne chert and Newala limestone also furnish abundant supplies of ground water but have smaller areas of outcrop. The quality of ground water is generally good except for the hardness of water from the Conasauga formation and the very high hardness and high iron content of water from the Floyd shale.

SELECTED REFERENCES

Adams, G. I., Butts, Charles, Stephenson, L. W., and Cooke, C. Wythe, 1926, Geology of Alabama: Alabama Geol. Survey Spec. Rept. 14, 312 p.

Calhoun County Industrial Development Board, 1956, The industrial potential of Calhoun County: Alabama State Planning and Industrial Development Board.

Fenneman, N. M., 1938, Physiography of eastern United States: New York, McGraw-Hill, 714 p.

Johnston, W. D., Jr., 1933, Ground water in the Paleozoic rocks of northern Alabama: Alabama Geol. Survey Spec. Rept. 16, pt. 1, 414 p.; pt. 2, 48 well and spring tables.

McCalley, Henry, 1897, The Coosa Valley region, pt. 2 of The valley regions of Alabama: Alabama Geol. Survey Spec. Rept. 9, 862 p.

Meinzer, O. E., 1923, Outline of ground-water hydrology, with definitions: U. S. Geol. Survey Water-Supply Paper 494, 71 p.

U. S. Public Health Service, 1946, Drinking water standards: Public Health Repts., v. 61, p. 371-384.

A-18	J. C. Warren	. . . .	D	38.1	6	Єc	677	6.9	4-10-57	M	D	60	4	178	Supplies 2 people. Casing: 6-in. to 40 ft.; none below.
A-19	W. M. Formby	Rogers Well Drillers.	D	43	6	Єc	664	8.1	4-11-57	J	D,S	. . . .	11	220	Supplies 6 people and 10,000 chickens. Drilled in 1917.
A-20	P. F. Naugher	. . . .	D	. . . . .	6	Єc	665	15	1956	J	D	. . . .	4	180	Supplies 2 people. Drilled in 1947.
A-21	J. C. Warren	. . . .	Spr	. . . . .	. . . . .	Єc	663	. . . . .	. . . . . .	F	S	64	4	208	Measured flow 258 gpm on 7-17-57.
A-22	J. L. Adderhold . . .	. . . .	D	104.2	5	Єc	730	69.1	4-10-57	M	D,S	63	32	220	Supplies 9 people and 10 head of stock.
A-23	J. L. Norton	. . . .	D	105	6	ЄO	743	. . . . .	. . . . . .	C	N	. . . .	4	166	
A-24	Everett Law	Carl Pace	D	96	6	Єc	725	. . . . .	. . . . . .	J	D	. . . .	4	302	Supplies 6 people.
A-25	Daisy Grissom	Rogers Well Drillers.	D	200	6	Єc	715	36.6	4- 9-57	T	D,S	. . . .	4	184	Supplies 6 people and 12 dairy cows.
A-26	W. E. Knight	. . . .	Du	28.6	36	ЄO (?)	720	4.9	. . do . .	M	D	58	18	142	Supplies 4 people. Supply inadequate during dry season.
A-27	C. L. Smart	. . . .	Spr	. . . . .	. . . . .	Єr	651	. . . . .	12-13-57	F	D,S	62	. . . .	148	Water pumped from walled reservoir to supply 3 families (8 people) and 20 head of stock. Measured flow 398 gpm on 12-13-57.
A-28	Frank Stewart	. . . .	Spr	. . . . .	. . . . .	Єc	654	. . . . .	. . do . .	F	S	63	. . . .	140	Concrete block wall around spring. Measured flow 622 gpm on 12-13-57.
A-29	Wesley Smith	. . . .	Spr	. . . . .	. . . . .	Єc	675	. . . . .	. . do . .	F	D	61	4	60	Supplies 6 people. Measured flow 203 gpm on 12-13-57.
B- 1	W. T. Reynolds . . .	W. T. Reynolds .	Du	28	36	. . .	711	5.8	3-15-57	J	D	60	11	174	Supplies 5 people.
B- 2	Ross Stewart	. . . .	D	226	6	Єc (?)	646	2.0	. . do . .	N	N	62	4	142	Well is not cased.
B- 3	. . . . do	. . . .	Du	18	36	Єc (?)	646	1.8	. . do . .	J	D	62	4	64	Supplies 3 people.
B- 4	. . . . do	. . . .	D	96	6	Єc (?)	646	1.5	. . do . .	N	N	62	4	180	Well is not cased.
B- 5	Lewis Sexton	Everett Green . .	D	83	6	Єc	623	12.0	3-11-57	J	D	. . . .	4	192	Supplies 1 house and store. Casing: 6-in. to 20 ft.; none below.
B- 6	T. Knighton	Hawthorne Well Drillers.	D	80	6	Єc	638	15.0	. . do . .	J	D	. . . .	32	62	Supplies 2 people. Casing: 6-in. to 30 ft.; none below.
B- 7	A. G. McIntire	Hoyt Carns	D	160	6	Srm	626	25.8	. . do . .	J	D	. . . .	25	180	Casing: 6-in. to 22 ft.; none below.
B- 8	Lonnie McCurdy . . .	Rogers Well Drillers.	D	130	6	Srm	663	.0	. . do . .	M	D	62	53	262	Supplies 3 people. Casing: 6-in. to 100 ft.; none below.
B- 9	Clyde Childers	Walters Well Drillers.	D	. . . . .	6	Єc	649	11.7	. . do . .	J	D	. . . .	4	168	Supplies 5 people.
B-10	William Anderson . .	C. R. Killian . . .	D	. . . . .	6	Єc	647	1.5	. . do . .	J	D	62	4	360	Do.
B-11	J. H. Coleman	. . . . do	D	93	6	Єc	661	. . . . .	. . . . . .	J	D	. . . .	4	272	Supplies 4 people. Casing: 6-in. to 40 ft.; none below.
B-12	. . . . do	Walters Well Drillers.	D	57	6	Єc	661	10.1	3-11-57	J	D	. . . .	4	230	Casing: 6-in. to 20 ft.; none below.

Table 1.--Records of wells and springs in Calhoun County, Ala.--Continued

Well or spring No.	Owner	Driller	Type	Depth of well (feet)	Diameter of well (inches)	Water-bearing formation	Altitude of land surface (feet)	Water level: Above (+) or below land surface (feet)	Water level: Date of measurement	Method of lift	Use of water	Field determinations: Temperature (°F)	Field determinations: Chloride (ppm)	Field determinations: Hardness as $CaCO_3$ (ppm)	Remarks
B-13	Ottie Bishop	C. R. Killian . . .	D	63	6	Ꞓc	659	1.3	3-11-57	J	D	61.5	4	302	Supplies 2 people.
B-14	E. P. Knighton	. . . .	Du	25	36	Ꞓc	694	. . . . .	3- 9-57	M	D	61	4	144	Supplies 4 people.
B-15	H. C. Vernon	Rome Drilling Co.	D	321	6	Ꞓc	660	10.7	3-11-57	N	N	. . . .	. . . .	. . . .	Supply inadequate for domestic use.
B-16	Joe Elliot	. . . .	D	137	6	ꞒO	752	96.0	3-19-57	J	D	. . . .	53	26	Supplies 5 people. Water contains iron. Well drilled inside dug well.
B-17	D. A. Ross	. . . .	D	93	6	ꞒO	725	45	1956	J	D	. . . .	4	64	Supplies 1 house and store. Casing: 6-in. to 91 ft.; none below.
B-18	Otis Law	Charles Austin . .	D	87	6	ꞒO	713	48.0	3-15-57	J	D	. . . .	4	152	Casing: 6-in. to 87 ft.; none below.
B-19	E. J. Sanford	Hawthorne Well Drillers.	D	72	36-6	ꞒO	704	6.8	3-19-57	J	D	. . . .	4	104	Well drilled inside a dug well.
B-20	S. G. Estes	. . . .	Spr	. . . . .	. . . .	Ꞓr	665	. . . . .	11-14-57	F	D	64	4	170	Supplies 3 people. Estimated flow 12 gpm on 11-14-57.
B-21	. . . . do	. . . .	Spr	. . . . .	. . . .	Ꞓr	661	. . . . .	. . do . .	F	D	65	4	128	"Robertson" Spring. Pumped to 2 houses (7 people). Estimated flow 7 gpm on 11-14-57.
B-22	Jodie Thorten	. . . .	Spr	. . . . .	. . . .	Ꞓs	643	. . . . .	11-13-57	F	D	60	. . . .	90	Known as Big Willow Spring. Pumped to 2 houses. Measured flow 27 gpm on 11-13-57.
B-23	Laura Collins	. . . .	Spr	. . . . .	. . . .	Ꞓs	637	. . . . .	. . do . .	F	D,S	60	4	164	Known as Collins Spring. Supplies 4 people and 5,200 chickens. Measured flow from fracture 19 gpm on 11-13-57.
B-24	J. G. Collier	. . . .	Spr	. . . . .	. . . .	Ꞓc	623	. . . . .	. . do . .	F	D	60	4	110	Known as Collier's Spring. Supplies 7 people. Estimated flow 3 gpm on 11-13-57.
B-25	B. C. Benefield . . .	. . . .	Spr	. . . . .	. . . .	Ꞓc	653	. . . . .	. . do . .	F	D	61	4	134	Pumped to 1 house. Measured flow 242 gpm on 11-13-57.
B-26	R. H. Benefield . . .	. . . .	Spr	. . . . .	. . . .	Ꞓc	631	. . . . .	. . do . .	F	N	. . . .	3.5	180	Known as Little Spring.
B-27	. . . . do	. . . .	Spr	. . . .	. . . .	Ꞓc	633	. . . . .	. . do . .	F	N	61	4	134	Known as Big Spring. Measured flow 20 gpm on 11-13-57.
B-28	Clayton A. Studdard	. . . .	Spr	. . . . .	. . . .	Ꞓr Ꞓs	652	. . . . .	. . do . .	F	D	61	4	110	Measured flow 194 gpm on 11-13-57.

C- 1	J. Fisher	Alabama-Pennsylvania Drilling Co.	D	99	6	Mf	677	20	1956	J	D	. . .	4	134	Supplies 4 people. Casing: 6-in. to 25 ft.; none below. Water contains iron.
C- 2	J. A. Griffiths	. . . .	Du	50	36	Mf	689	30.4	11-15-56	M	D	63	18	74	Supplies 8 people.
C- 3	E. C. Smith	J. H. Beard . . .	D	90	6	Mf	657	29.2	. . do . .	J	D,S	. . .	4	232	Supplies 5 people. Casing: 6-in. to 20 ft.; none below.
C- 4	Fred Burford	Fred Burford . .	Du	. . . .	48	Mf	691	17.0	. . do . .	J	D	62	4	96	Supplies 1 family.
C- 5	H. Tilson	. . . .	Du	23	36	Mf	670	16.5	10-12-56	M	D	61	4	10	Supplies 2 people.
C- 6	Emmett Shaw	J. H. Beard . . .	D	108	6	Mfp	721	60.1	11-14-56	J	D	. . .	11	88	Supplies 7 people.
D- 1	R. T. Hollingsworth	. . . .	Du	34	36	Mf	683	37.7	12-14-56	M	D	62	46	154	Supplies 2 people.
D- 2	E. L. Thornton	J. H. Beard . . .	D	65	6	Mf	669	19	1956	J	D	. . .	. . .	. . .	Casing: 6-in. to 20 ft.; none below. Water contains iron.
D- 3	E. E. Tallant	. . . . do	D	69.5	6	Mf	665	17	. . do . .	J	D	. . .	4	. . .	Supplies 6 people. Casing: 6-in. to 20 ft.; none below.
D- 4	George Urso	. . . . do	D	50	6	Mf	673	18	. . do . .	J	D	. . .	4	. . .	Supplies 4 people. Casing: 6-in. to 20 ft.; none below. Water contains iron.
E- 1	R. E. Lee	. . . .	Du	23	36	Mf	613	20.3	2- 1-57	J	D	. . .	4	182	Supplies 6 people.
E- 2	H. D. Harvey	Walters Well Drillers.	D	96	6	Mfp	644	53.0	2- 4-57	J	D	. . .	11	112	Supplies 4 people.
E- 3	W. H. Kennedy	. . . .	Du	27.9	24	Mf	567	23.8	12-11-56	C	D	63	4	180	Do.
E- 4	Raymond M. Bell . . .	Walters Well Drillers.	D	70	6	Mf	589	20.9	12-13-56	J	D	. . .	4	208	Water contains iron. Supplies 2 people.
E- 5	Marvin Lee Owens . .	. . . .	Du	32.1	36	Mf	622	31.1	. . do . .	M	D	. . .	4	210	Supplies 7 people.
E- 6	Clifford Vice	. . . .	Du	38	36	Mfp	641	9.6	2- 1-57	J	D	. . .	11	176	Dry in summer. Supplies 4 people.
E- 7	E. C. McDill	. . . .	Du	18.9	42	Mf	609	16.6	12-13-56	M	D	61	11	0	Water contains iron. Supplies 7 people.
E- 8	L. F. Kennedy	Carl Pace	D	152	6	Mfp	545	. . . .	. . . . . .	J	D	. . .	4	142	Supplies 6 people.
E- 9	R. C. Schatz	. . . .	D	59.2	6	Mf	663	39.9	12-17-56	J	D	. . .	4	128	Supplies 13 people.
E-10	Jerry Thrasher	. . . .	Du	29.9	36	Df	550	27.6	12- 5-56	M	D	62	25	30	Supplies 5 people.
E-11	Clyde Haver	. . . .	Du	24.7	30	Mf	562	20.6	. . do . .	C	D	62	32	342	Supplies 2 people.
E-12	P. M. Martin, Jr. . .	Abernathy Well Drillers.	D	55	6	Mf	536	9.9	12-11-56	J	D,S	. . .	18	458	Supplies 6 people and 7 head of stock.
E-13	Eugene Perry	Alvin Yancy	D	56	6	Mf	538	14.1	. . do . .	J	D	. . .	18	581	Supplies 3 people.
F- 1	Gordon Roper	Roscoe Shipman .	D	60	6	Mf	639	24	1951	J	D	. . .	4	194	Supplies 4 people. Casing: 6-in. to 20 ft.; none below.
F- 2	R. C. Shew	C. R. Killian . .	D	111	6	Mf	689	20	1955	J	D	. . .	4	42	Supplies 5 people.
F- 3	Pauline Shew	John Beard	D	75	6	Mf	691	16.9	2-12-57	J	D	. . .	4	42	Supplies 4 people. Casing: 6-in. to 70 ft.; none below.

Table 1. --Records of wells and springs in Calhoun County, Ala. --Continued

Well or spring No.	Owner	Driller	Type	Depth of well (feet)	Diameter of well (inches)	Water-bearing formation	Altitude of land surface (feet)	Water level		Method of lift	Use of water	Field determinations			Remarks
								Above (+) or below land surface (feet)	Date of measurement			Temperature (°F)	Chloride (ppm)	Hardness as $CaCO_3$ (ppm)	
F- 4	Cecil Edgars	. . . .	Du	18	36	Mf	636	0	2- 4-57	J	D	62	4	58	Supplies 2 people. Dry in summer. Water contains iron.
F- 5	R. Dry	. . . .	Du	30	36	Mf	679	5.3	2- 7-57	M	D	60	4	90	Supplies 3 people. Water contains iron.
F- 6	R. L. Walker	. . . .	Du	15	36	Mf	626	7.0	. . do . .	J	D	62	4	126	Supplies 3 people.
F- 7	Preston J. Welch .	John Beard	D	74.7	6	Mf	597	14	1955	J	D	. . . .	4	170	Supplies 5 people. Casing: 6-in. to 34 ft.; none below.
F- 8	. . . . do	. . . .	Du	38	48	Mf	597	6.6	2-12-57	M	D	. . . .	4	152	Supplies 5 people.
F- 9	Wayne Bonner	Alvin Yancy . . .	D	62	6	Mf	624	27.0	12-12-56	J	D	. . . .	4	170	Supplies 2 people.
F-10	--Connell	. . . . do	D	62	6	Mf	606	9.2	. . do . .	J	D	. . . .	4	170	Supplies 7 people. Casing: 6-in. to 21 ft.; none below.
-11	H. B. Taylor	Hubert Walker .	D	86	6	Mf	622	25.7	12-14-56	J	D	. . . .	4	92	Supplies 4 people. Casing: 6-in. to 7 [illegible]; none below.
F-12	Floyd Beard	C. E. Wilkes . .	D	75	6	Mf	599	20.5	12-12-56	J	D	. . . .	4	304	Supplies 5 people. Casing: 6-in. to 34 ft.; none below.
F-13	Calhoun Co. Board of Education, Webster Chapel School.	Carl Pace	D	150	. . . .	Mf	615	. . . . .	. . . . . .	J	P	. . . .	4	180	
F-14	R. L. Johnson . . .	John Beard	D	95	6	Mf	622	22.1	12-11-56	J	D, S	. . . .	4	162	Supplies 5 people and 1 head of stock. Casing: 6-in. to 30 ft.; none below.
F-15	A. P. Hollingsworth	Walker and Green	D	115	6	Mf	615	27.9	. . do . .	J	D	. . . .	60	312	Supplies 8 people. Water contains iron. Casing: 6-in. to 87 ft.; none below.
F-16	W. C. Roper	John Beard	D	75	6	Mf	610	14.2	12-12-56	J	D	. . . .	4	176	Supplies 3 people. Casing: 6-in. to 60 ft.; none below.
F-17	Roy Wallace	. . . .	Du	30	36	Mf	631	27.4	12-11-56	M	D	. . . .	4	74	Supplies 5 people.
F-18	--Sweatt	. . . .	D	59	6	Mf	613	. . . . .	. . . . . .	M	D	. . . .	. . . .	. . . .	Casing: 6-in. to 28 ft.; none below.
F-19	Z. Meeks	Z. Meeks	Du	16.5	48	Mf	577	4.3	2-12-57	M	D	60	4	158	Supplies 2 people.
F-20	M. Baughman	. . . .	D	102	6	Mf	622	. . . . .	. . . . . .	J	D	. . . .	4	206	Supplies 4 people.

F-21	A. J. Douthit	John Beard	D	68	6	Mf	708	13.3	2- 7-57	J	D,S	. . . .	4	150	Supplies 3 people and 10 head of stock. Casing: 6-in. to 20 ft.; none below.
F-22	W. C. Strange	Abernathy Well Drillers.	D	118	6	Mf (?)	631	30	1954	J	D,S	. . . .	4	20	Supplies chicken farm.
F-23	Lee Brothers Foundry.	Carl Pace . . .	D	250	6	Mf	606	.5	2- 1-57	J	D	. . . .	4	180	Supplies 2 people. Casing: 6-in. to 30 ft.; none below. Water is sulfurous.
F-24	H. E. Kelley	--Bryant	D	75	6	Mf	618	9.4	2- 4-57	J	D,S	. . . .	4	182	Supplies 2 head of stock. Casing: 6-in. to 20 ft.; none below. Water contains iron.
F-25	Ralph Miller	. . . .	Du	25	36	Mf	581	7.0	. . do . .	J	D,S	. . . .	4	94	Water contains iron. Supplies 4 people and 4 head of stock. Casing: 6-in. to 25 ft.
F-26	James Brown	. . . .	Du	28	36	Mf	620	13.0	. . do . .	M	D	. . . .	18	64	Supplies 5 people.
F-27	Ralph McDill	. . . .	Du	14	36	Mf	589	7.4	. . do . .	J	D	. . . .	11	142	Supplies 3 people.
F-28	Lee Brothers Foundry.	. . . .	D	. . . . .	6	Mf	580	. . . . .	. . . . .	J	D	. . . .	4	190	Supplies 5 people.
F-29	. . . . do	. . . .	D	150	6	Mf	574	. . . . .	. . . . . .	J	P	. . . .	4	168	Supplies park. Casing: 6-in. to 30 ft.; none below.
F-30	D. B. Jones	Walters Well Drillers.	D	55	6	Mf	636	10.2	2- 1-57	J	D	. . . .	11	38	Supplies 6 people. Casing: 6-in. to 55 ft. Water contains iron.
F-31	T. A. Talburt	. . . .	D	65	6	Mf	635	24.8	2-12-57	J	D	. . . .	4	78	Supplies 5 people. Casing: 6-in. to 60 ft.; none below. Water contains iron.
F-32	J. P. Baker	J. F. Dalrymple	D	87	6	Mf	602	12.6	. . do . .	J	D	. . . .	4	136	Supply for motel.
F-33	G. M. Balcer	. . . . do	D	85	6	Mf	610	18.2	. . do . .	J	D	. . . .	4	76	Supplies 3 people. Casing: 6-in. to 30 ft.; none below. Water contains iron.
F-34	Hattie Read	James Patrick .	D	14	60	Mf	582	7.5	2- 7-57	J	D	. . . .	4	278	Supplies 2 people. Water contains iron.
F-35	Sam Upton	Emmett Green .	D	68	6	Mf	601	48	8- -55	J	D	. . . .	11	78	Supplies 4 people. Casing: 6-in. to 20 ft.; none below. Water contains iron.
F-36	Gertrude Swygert . .	Roscoe Shipman.	D	160	6	Mf	587	. . . . .	. . . . . .	J	D	. . . .	4	64	Supplies 8 people.
F-37	Art LeRoy	. . . .	Du	15.0	36	Mf	603	10.4	2- 7-57	M	D	61.5	11	50	Supplies 1 person. Water contains iron.
F-38	Wallace Pettis	. . . .	Du	54.1	36	Ob	632	47.3	8-20-56	M	D	61.5	18	10	Supplies 11 people.
F-39	J. M. Nance	. . . .	Du	24.2	36	Ob	592	15.8	. . do . .	M	D	. . . .	. . . .	. . . .	Supplies 6 people.
F-40	O. L. Hester	. . . .	Du	59.3	48	Ob	621	56.4	8-21-56	J	D	. . . .	18	80	Supplies 5 people.
F-41	Fannie Hethcock . .	. . . .	Spr	. . . . .	. . . .	Ob	578	. . . . .	. . . . . .	F	S	64	4	114	Measured flow 626 gpm on 7-15-57.
*F-42	T. W. and J. H. Read.	. . . .	Spr	. . . . .	. . . .	Ob	531	. . . . .	. . . . . .	F	D	62.5	18	118	Measured flow 3,319 gpm on 6-18-57.
F-43	J. E. Read	Roscoe Shipman.	D	61.1	6	Mfp	564	34.4	11-16-56	N	N	. . . .	. . . .	. . . .	Water contains iron.
F-44	R. B. Sprayberry. .	F. O. Pugh	D	102.2	6	Mfp	590	58.5	. . do . .	N	N	. . . .	. . . .	. . . .	
F-45	. . . . do	. . . . do	D	115	6	Mfp	588	60.8	. . do . .	J	D	. . . .	11	52	Supplies 3 people.
F-46	C. B. Avans	Abernathy Well Drillers.	D	141	6	Mf	568	33.4	. . do . .	J	D	. . . .	4	152	Supplies 4 people. Drilled inside dug well.

Table 1. --Records of wells and springs in Calhoun County, Ala. --Continued

Well or spring No.	Owner	Driller	Type	Depth of well (feet)	Diameter of well (inches)	Water-bearing formation	Altitude of land surface (feet)	Water level		Method of lift	Use of water	Field determinations			Remarks
								Above (+) or below land surface (feet)	Date of measurement			Temperature (°F)	Chloride (ppm)	Hardness as $CaCO_3$ (ppm)	
F-47	Thomas L. Noah . .	. . . .	Du	22.2	6	Mf	566	18.8	12-10-56	M	D	60.5	46	432	Supplies 6 people. Supply inadequate during dry seasons.
F-48	J. Kelly	. . . .	Du	26.8	36	Mf	566	22.7	. . do . .	M	D	62.5	11	198	Do.
F-49	Pelham Vice	. . . .	Du	37	36	Mf	583	34.5	. . do . .	J	D	. . . .	11	0	Supplies 7 people. Supply inadequate during dry seasons.
-50	Alfred Wilkerson . .	. . . .	Du	17.9	24	Mf	532	17.6	. . do . .	M	D	. . . .	. . . .	. . . .	
F-51	Paul G. Perry	. . . .	Du	28.3	36	Mf	546	25.9	. . do . .	C	D	. . . .	18	180	Supplies 5 people. Water contains iron.
F-52	Miller Propes	Abernathy Well Drillers.	D	203	6	Mf	553	17.1	11-15-56	N	N	. . . .	. . . .	. . . .	Casing: 6-in. to 30 ft.; none below.
3	. . . do	. . . . do	D	123	6	Mf	545	. . . .	. . . . . .	J	D	. . . .	25	1,436	Supplies 5 people.
F-54	N. C. Noah	Alvin Yancy	D	192	6	. . . .	547	46.9	12- 4-56	J	D	. . . .	4	146	Supplies 13 people.
*F-55	Phillip Held	. . . .	Spr	. . . . .	. . . .	Ob	538	. . . .	. . . . . .	F	D	64	11	134	Measured flow 485 gpm on 7-15-57. Flows into lake.
F-56	Walter Gentry	. . . .	D	75.3	6	Ob	592	45.4	11-16-56	J	N	. . . .	. . . .	. . . .	
F-57	Charles O. Noah . .	J. F. Dalrymple	D	85	6	Ob	587	44.3	. . do . .	J	D	. . . .	4	156	Supplies 5 people. Casing: 6-in. to 35 ft.; none below.
F-58	Grady Noah	. . . .	D	76.5	6	Mfp	611	49.9	11-14-56	J	D	. . . .	4	82	Supplies 2 people.
F-59	Calhoun Co. Board of Education, Duke School.	Carl Pace	D	187	6	Mf	595	. . . .	. . . . . .	J	P	. . . .	4	144	
F-60	Erma Harrelson . .	B. Owen	D	87	6	Mf	586	31.9	11-14-56	J	D	. . . .	4	156	Supplies 8 people.
F-61	Raymond Doutherd.	. . . .	D	85.9	6	Mfp	593	38.5	. . do . .	J	D	. . . .	11	136	Supplies 4 people. Casing: 6-in. to 43 ft.; none below.
F-62	Russell Burgess . .	. . . .	D	80.5	6	Mfp	668	27.4	. . do . .	J	D	. . . .	4	28	Supplies 3 people.
F-63	Smith Boozer	Wiley Bryant . .	D	165	6	Mfp	650	. . . .	. . . . . .	J	D	. . . .	4	26	Supplies 6 people.
F-64	Ida Burgess	. . . .	Du	45	42	Mfp	611	43.7	11-14-56	M	D	62	11	64	Supplies 2 people.
F-65	Lawrence Burgess.	. . . .	Du	34.8	42	Mf	598	33.7	. . do . .	M	D	62	18	190	Supplies 6 people.

F-66	L. R. Fike	Emmett Green . .	D	81	6	Mf	627	51	10- -56	J	D	62	4	122	Supplies 3 people. Casing: 6-in. to 79 ft.; none below. Driller's log in files of U. S. Geol. Survey.
F-67	C. L. Clark	. . . .	D	68	6	Mfp	602	. . . .	. . . . . .	J	D	. . . .	32	170	Supplies 4 people.
*F-68	H. T. Scarbrough .	. . . .	Spr	. . . .	. . . .	Ob	560	. . . .	. . . . . .	F	D	60.5	4	124	Measured flow 2, 128 gpm on 7-15-57.
F-69	E. G. Sprayberry .	. . . .	Du	22.9	36	ꞒO	584	19.8	8-20-56	C	D	. . . .	4	12	Supplies 3 people.
F-70	Mt. Gilead Church	. . . .	Spr	. . . .	. . . .	Mfp	614	. . . .	. . . . . .	F	N	. . . .	35	174	Formerly used as source of water supply for church. Measured flow 13 gpm on 10-17-57.
F-71	F. F. Webster . . .	. . . .	Spr	. . . .	. . . .	Mfp	519	. . . .	. . . . . .	F	N	. . . .	. . . .	. . . .	Boil type spring. Measured flow 3 gpm on 10-22-57.
G- 1	C. F. Couch	Roscoe Shipman .	D	83	6	Mf	716	24.9	11- 8-56	M	D,S	62	4	48	Supplies 4 people and 12 head of stock. Casing: 6-in. to 30 ft.; none below. Water contains iron.
G- 2	Clifford Beard	. . . .	Du	. . . .	36	Mf	717	38.4	11-14-56	M	D,S	. . . .	11	158	Supplies 6 people and 1 head of stock.
G- 3	J. W. Allsup	Emmett Green . .	D	75	6	Mf	678	27.9	11- 1-56	J	D	. . . .	4	76	Supplies 4 people. Casing: 6-in. to 30 ft.; none below. Water contains iron.
G- 4	J. B. Browning . . .	. . . . do	D	75	6	Mf	648	19.0	11- 8-56	J	D	. . . .	18	228	Supplies 4 people. Casing: 6-in. to 40 ft.; none below. Water contains iron.
G- 5	James Browning . .	Abernathy Well Drillers.	D	72	6	Mf	657	12.4	10-30-56	J	D	61	11	142	Supplies 3 people. Casing: 6-in. to 25 ft.; none below. Water contains iron.
G- 6	Luther Millen	Luther Millen . .	Du	26	48	Mf	644	18.9	10-17-56	J	D	. . . .	75	88	Supplies 4 people.
G- 7	A. J. Landers . . .	. . . .	Spr	. . . .	. . . .	ꞒO	640	. . . .	. . . . . .	F	D,S	62	4	100	Measured flow 81 gpm on 7-17-57. Flows into fish pond.
G- 8	Charles C. Watson	J. H. Beard . . .	D	60	6	Mf	632	25	1956	J	D	. . . .	4	142	Supplies 3 people. Casing: 6-in. to 40 ft.; none below.
G- 9	R. C. Boozer	. . . .	D	84.6	6	ꞒO	723	84.4	10-17-56	J	D	61	4	164	
G-10	Ernest T. Boozer .	. . . .	D	44	36	ꞒO	711	40.2	10-30-56	J	D,S	. . . .	25	142	Supplies 7 people.
G-11	H. E. Boozer	F. O. Pugh	D	125	6	ꞒO	710	64.4	10-17-56	J	D,S	. . . .	4	10	Supplies 11 people and 4 head of stock. Casing: 6-in. to 125 ft.
G-12	Ralph Greene	Ben Owens	D	83.3	6	Ꞓc	728	62.5	. . do . .	J	D	. . . .	4	140	Supplies 4 people. Casing: 6-in. to 90 ft.
G-13	W. C. Birskey . . .	. . . .	Du	65	36	Ꞓc	727	37.4	11- 8-56	M	D	60	18	112	Supplies 5 people.
G-14	Thomas Couch . . .	Abernathy Well Drillers.	D	105	6	ꞒO	692	37.3	11-14-56	M	D	. . . .	4	128	Supplies 30 people. Casing: 6-in. to 40 ft.; none below.
G-15	G. W. Parrish . .	. . . .	Du	32	48	Ꞓc	745	16.5	11-15-56	M	D	61	4	174	Supplies 20 people.
G-16	Dewey Boozer	Gilbert Rogers .	D	138	6	Ꞓr	799	66.8	11- 8-56	J	D	. . . .	11	182	Supplies 2 people.
G-17	E L. Greene	. . . .	Du	64.7	36	ꞒO	728	50.9	10-17-56	M	D	61	11	32	Supplies 5 people.
G-18	Calhoun Co. Board of Education, Williams School.	Roscoe Shipman.	D	76	6	ꞒO	717	55.5	. . do . .	J	P	. . . .	4	200	

Table 1. --Records of wells and springs in Calhoun County, Ala. --Continued

Well or spring No.	Owner	Driller	Type	Depth of well (feet)	Diameter of well (inches)	Water-bearing formation	Altitude of land surface (feet)	Water level		Method of lift	Use of water	Field determinations			Remarks
								Above (+) or below land surface(feet)	Date of measurement			Temperature (°F)	Chloride (ppm)	Hardness as $CaCO_3$ (ppm)	
G-19	W. A. Priest	F. O. Pugh . . .	D	230	6	ЄO	727	81.0	11-14-56	J	D	. . .	4	184	Supplies 3 people. Casing: 6-in. to 60 ft.; none below.
G-20	E. M. Welch	Walter Waldon .	D	78.4	6	ЄO	712	. . . .	. . . . . .	J	D, S	. . .	4	224	Supplies 14 people and 14 head of stock. Cavity at 75 to 78 ft. below land surface.
G-21	D. Greene.	. . . .	D	148	6	ЄO	722	95.8	10-17-56	J	D	. . .	4	134	Supplies 13 people. Casing: 6-in. to 100 ft.; none below.
G-22	Emmett Green . . .	Roscoe Shipman.	D	108	6	ЄO	684	85.0	11-20-56	J	D	. . .	4	228	Supplies 3 people. Casing: 6-in. to 90 ft.; none below.
G-23	Edward Brown . . .	Marvin Sillman .	D	78	6	ЄO	631	55.0	12- 3-56	J	D	. . .	4	186	Supplies 10 people. Casing: 6-in. to 78 ft.
G-24	Ermon Jenkins . .	. . . . do	D	76	6	ЄO	628	51.9	. . do . .	J	D	. . .	4	82	Supplies 6 people. Casing: 6-in. to 76 ft.
G-25	Gerard Taylor . .	. . . . do	D	80	6	ЄO	652	60.8	. . do . .	J	D, S	. . .	11	100	Supplies 5 people and 3 head of stock. Casing: 6-in. to 80 ft.
G-26	T. J. Johnson . .	. . . .	D	195	6	ЄO	738	75.5	11-20-56	J	D	. . .	11	30	Supplies 2 people.
G-27	Oscar Boozer . . .	Abernathy Well Drillers.	D	150	6	ЄO	722	60	1955	J	D	. . .	. . .	254	Supplies 6 people.
G-28	Rembert Green . .	Emmett Green . .	D	90	6	ЄO	717	35.3	11-20-56	J	D	. . .	11	212	Supplies 2 people. Casing: 6-in. to 30 ft.; none below.
G-29	Jesse Boozer . . .	Rogers Well Drillers.	D	99	6	Єc	779	40	1952	J	D	. . .	4	198	Supplies 2 people. Casing: 6-in. to 50 ft.; none below.
G-30	W. L. Green. . . .	. . . .	Du	29	36	Єr	750	. . . .	. . . . . .	J	. . .	. . .	11	310	
G-31	Evie Dempsey . . .	Charles Austin	D	87	6	ЄO (?)	697	. . . .	. . . . . .	J	D, S	. . .	4	100	Supplies 5 people and 2 head of stock. Casing: 6-in. to 87 ft.; none below.
G-32	B. D. Dempsey . .	W. M. Hancock .	D	95	6	Mf	686	16.1	4-10-56	N	N	. . .	. . .	. . .	
G-33	J. E. Glass	. . . .	Du	16.2	30	Mf	635	14.0	8-27-56	M	D	64	18	214	Supplies 6 people. Supply inadequate during dry season.
G-34	Maurice Carpenter	Abernathy Well Drillers.	D	68.7	6	Mf (?)	635	17.6	. . do . .	C	D	. . .	18	198	Supplies 6 people.
G-35	Leon Boozer	. . . .	Du	55.6	30	Ob (?)	673	45.9	8-28-56	M	D	61	25	100	Supplies 4 people.
G-36	. . . . do	. . . .	D	62.6	6	ЄO (?)	670	46.8	. . do . .	N	N	. . .	. . .	. . .	

G-37	M. J. Johnson	Hawthorne Well Drillers.	D	176	6	ЄO	658	20.1	8-28-56	J	D	. . .	46	44	Supplies 5 people. Casing: 6-in. to 173 ft.; none below.
G-38	Oscar Barnes	. . . .	D	54.2	6	ЄO	701	43.3	. . do . .	M	D	63	4	138	Supplies 5 people.
G-39	O. W. Bond	Roscoe Shipman .	D	160	6	ЄO	696	. . . .	. . . . . .	J	D	. . .	4	184	Supplies 11 people.
G-40	Raymond Johnson . . .	. . . . do	D	121	6	ЄO	711	78.3	11-20-56	J	D, S	. . .	4	138	Supplies 2 people and 1 head of stock. Casing: 6-in. to 40 ft.; none below.
G-41	John Gorey	. . . .	D	92.2	5	ЄO	697	50.0	8-21-56	M	D	62	11	142	Supplies 6 people.
G-42	Clifford Gardner . . .	Emmett Green . .	D	113	6	ЄO	728	83	9- -55	J	D	. . .	11	108	Supplies 5 people.
G-43	R. Berry Willerman	Abernathy Well Drillers.	D	79.2	6	ЄO	663	42.4	8-20-56	M	D	62	11	156	Do.
G-44	Lloyd Johnson	. . . .	D	. . . .	6	ЄO	660	64.6	. . do . .	J	D	. . .	11	32	Supplies 2 people.
G-45	Homer L. Johnson . .	. . . .	Du	37.6	36	ЄO	658	27.5	. . do . .	J	D	. . .	11	10	Supplies 7 people.
G-46	Lawrence Boozer . . .	. . . .	D	108	6	ЄO	694	75.7	8-21-56	M	D	62	11	198	Supplies 3 people.
G-47	Emmie Boozer	. . . .	Du	20.6	36	ЄO	645	16.0	. . do . .	J	D	. . .	. . .	. . .	
G-48	. . . . do	Charles Austin . .	D	52.3	6	ЄO	645	15.9	. . do . .	N	D	. . .	11	166	
G-49	Walter Littlejohn . . .	. . . .	Du	20.1	36	ЄO	645	7.9	. . do . .	J	D	. . .	11	16	Supplies 5 people. Water contains iron.
G-50	J. D. Hulsey, Jr. . .	Roscoe Shipman .	D	70.8	6	ЄO	675	52.8	8-28-56	J	D	. . .	11	16	Well has been pumped dry. Supplies 8 people.
G-51	W. B. Bonds	. . . .	Du	42.5	36	ЄO	663	39.1	. . do . .	M	D	61	40	42	Supplies 5 people.
G-52	Dan Gray	. . . .	Du	22.8	36	Mf	626	18.0	8-29-56	N	N	. . .	. . .	. . .	
G-53	James G. McFall . . .	. . . .	Du	12.9	36	Mf	623	8.8	8-27-56	C	D	. . .	18	116	Supplies 13 people.
G-54	Luther Miller	. . . .	Spr	. . . .	. . .	ЄO	647	. . . .	. . . . . .	F	S	. . .	. . .	. . .	Seep type spring covered by lake. No overflow from lake on 10-17-57.
G-55	N. S. Holder	. . . .	Spr	. . . .	. . .	Єs	629	. . . .	. . . . . .	F	D, S	62	4	148	Known as Greene Spring. Boil type spring. Measured flow 404 gpm on 10-17-57.
G-56	Dan W. Gray	. . . .	Spr	. . . .	. . .	ЄO	622	. . . .	. . . . . .	F	. . .	. . .	. . .	. . .	Measured flow 2,069 gpm on 10-17-57.
H- 1	M. G. Ledbetter . . .	. . . .	Du	. . . .	36	Mf	754	. . . .	. . . . . .	M	D	61	11	160	
H- 2	Clyde Studdard	. . . .	Du	18.2	36	ЄO	770	6.5	4- 2-57	N	D	. . .	. . .	. . .	Supplies 7 people. Inadequate supply in dry seasons.
H- 3	E. A. Studdard	Carl Pace	D	63	6	Єr	748	22.2	. . do . .	J	D	. . .	4	104	Supplies 2 people.
H- 4	Calhoun Co. Board of Education, Roy Webb School.	. . . .	D	. . . .	10	ЄO	758	15.3	. . do . .	J	P	. . .	25	142	
H- 5	Curtis Penny	Roscoe Shipman .	D	92	6	ЄO	756	. . . .	. . . . . .	J	D	. . .	18	148	Supplies 11 people.
H- 6	Abraham Johnson . . .	W. M. Hancock .	D	40	6	Mf	795	8.0	4-10-57	J	D	. . .	4	214	Supplies 4 people. Casing: 6-in. to 16 ft.; none below.
H- 7	Robert Hicks	Roscoe Shipman .	D	118	6	Єr	841	43.0	4-11-57	J	D	. . .	18	138	Supplies 5 people. Casing: 6-in. to 20 ft.; none below.

Table 1.--Records of wells and springs in Calhoun County, Ala.--Continued

Well or spring No.	Owner	Driller	Type	Depth of well (feet)	Diameter of well (inches)	Water-bearing formation	Altitude of land surface (feet)	Water level: Above (+) or below land surface (feet)	Water level: Date of meas-urement	Method of lift	Use of water	Field determinations: Temperature (°F)	Field determinations: Chloride (ppm)	Field determinations: Hardness as $CaCO_3$ (ppm)	Remarks
H- 8	Thomas Ford	Rogers Well Drillers.	D	110	6	ЄO	823	75.1	4-17-57	J	D	. . . .	11	186	Supplies 5 people. Bail tested at 12,000 gallons per hour in August 1954.
H- 9	Joe Hardin	. . . .	Du	39.7	36	ЄO	770	4.8	. do . .	M	N	60	4	50	Well inadequate for domestic use.
H-10	H. G. Alexander . .	. . . .	D	164.2	6	Єw	828	19.5	. . do . .	J	D	. . . .	4	62	Supplies 3 people. Casing: 6-in. to 28 ft.; none below.
H-11	J. E. Fortenberry.	Rogers Well Drillers.	D	76	6	. . .	794	23.3	. . do . .	N	N	. . . .	. . . .	. . . .	
H-12	L. A. McCurdy . .	Roscoe Shipman.	D	97.7	6	Єc	822	26.2	4-18-57	J	D	. . . .	18	222	Supplies 7 people.
H-13	George R. Ingram	. . . .	D	93	6	Єc	808	12.4	. . do . .	J	D	. . . .	4	124	Supplies 4 people. Casing: 6-in. to 30 ft.; none below.
H-14	Gordon Dempsey .	. . . .	D	66.8	6	Єc	842	42.5	4-17-57	M	D	. . . .	4	116	Supplies 2 people.
H-15	J. W. Williams . .	Charles Austin . .	D	52	6	Єc	719	11.0	4-18-57	J	D	. . . .	4	110	Supplies 6 people. Casing: 6-in. to 30 ft.; none below.
H-16	Hugh Smith	--Bentlerod	Du	60	36	Mf	750	27.1	4-10-57	J	D	. . . .	11	204	Supplies 7 people.
H-17	Roy Johnson	W. M. Hancock. .	D	104	6	ЄO	719	18.6	4- 2-57	J	D	. . . .	11	18	Supplies 3 people. Casing: 6-in. to 104 ft.
H-18	Woodson Lloyd . .	. . . . do	D	125	6	ЄO	712	2.3	4-10-57	J	D	. . . .	25	52	Supplies 3 houses.
H-19	H. L. Green . . .	. . . . do	D	78	6	Df (?)	686	2.7	. . do . .	J	D	. . . .	4	280	Supplies 4 people. Casing: 6-in. to 40 ft.; none below.
H-20	Thomas Walden .	Rogers Well Drillers.	D	76	6	Mf	742	13.9	. . do . .	J	D	. . . .	11	156	Supplies 7 people.
H-21	Ivy Ledbetter . . .	W. M. Hancock.	D	77	6	Mf	722	9.0	. . do . .	J	D	. . . .	60	346	Supplies 4 people. Casing: 6-in. to 20 ft.; none below.
*H-22	W. H. Wellborn .	. . . .	Spr	. . . .	. . . .	Єc	700	. . . .	. . . . . .	F	D, S	63	11	122	Measured flow 297 gpm on 7-24-57.
H-23	Otis McGathy . . .	W. M. Hancock.	D	52	6	Mf (?)	710	8.5	4-10-57	J	D	. . . .	4	64	Supplies 5 people. Casing: 6-in. to 20 ft.; none below.
H-24	George Crook, Jr.	. . . . do	D	62	6	Єc	689	15.2	4-24-57	J	D	. . . .	4	166	Supplies 5 people. Bail tested at 600 gallons per hour in October 1956. Casing: 6-in. to 62 ft.
H-25	W. M. Matthews .	Carl Pace	D	59.2	5.5	Єc	690	4.5	4-19-57	J	D	. . . .	11	164	Supplies 12 people.

H-26	J. W. Burrow	Carl Pace	D	76	6	Ꞓc	685	3	1955	J	D	. . . .	4	250	Supplies 4 people. Casing: 6-in. to 20 ft.; none below.
H-27	Joe H. Garrett . . .	Rogers Well Drillers.	D	100	6	Ꞓc	736	13.3	4-18-57	J	D	. . . .	11	156	Supplies 3 people. Casing: 6-in. to 25 ft.; none below.
H-28	A. B. Garrett . . .	. . . .	D	89	6	Ꞓc	747	12.4	. . do . .	J	D	. . . .	4	84	Supplies 4 people. Casing: 6-in. to 45 ft.; none below.
H-29	J. R. White	. . . .	D	. . . .	6	Ꞓc	785	. . . .	. . . . . .	N	N	. . . .	. . . .	. . . .	Plugged at 40 ft.
H-30	B. G. Knight	. . . .	D	136.1	6	Ꞓc	788	39.4	4-18-57	M	D	62	11	212	Supplies 1 person.
H-31	N. D. Davis	N. D. Davis . . .	Du	20.2	30	Ꞓc	733	4.0	3-28-57	M	N	58	4	46	
H-32	R. W. Doss	. . . .	Du	21.1	36	Ꞓr	749	6.2	3-15-57	J	D	. . . .	4	50	Supplies 17 people. Inadequate during dry seasons.
H-33	W. C. Hensley . .	Roscoe Shipman .	D	87	6	Ꞓc	698	45.4	4-18-57	J	D,S	. . . .	4	152	Supplies 3 people and 6,000 chickens.
H-34	H. A. King	. . . .	D	. . . .	6	Ꞓc	791	. . . .	. . . . . .	J	D	. . . .	4	12	
H-35	Sanford Willis . . .	W. M. Hancock .	D	68.7	6	Ꞓc	760	14.3	3-15-57	J	D	. . . .	4	110	Supplies 7 people.
H-36	William F. Goss .	. . . . do	D	114	6	Ꞓc (?)	840	. . . .	. . . . . .	J	D	. . . .	4	20	Supplies 4 people.
H-37	Robert I. Smith . .	. . . . do	D	91	6	Ꞓc (?)	761	. . . .	. . . . . .	J	D	. . . .	4	50	Do.
H-38	W. K. Penny	Charles Austin . .	D	78	6	Ꞓc	772	. . . .	. . . . . .	J	D	. . . .	4	40	
H-39	Charles Brown . .	. . . . do	D	120	6	Ꞓc	790	60.0	3- 1-57	J	D	. . . .	. . . .	. . . .	Supplies 6 people. Casing: 6-in. to 33 ft.; none below.
H-40	H. H. Holder	. . . .	Spr	. . . .	. . . .	ꞒO	769	. . . .	. . . . . .	F	D,S	61	. . . .	108	Known as Morehorn Spring. Supplies 2 people and 5,000 chickens. Measured flow 40 gpm on 11-13-57.
H-41	C. L. Morgan and Frank Wolf.	. . . .	Spr	. . . .	. . . .	ꞒO	777	. . . .	. . . . . .	F	S	62	4	112	Boil type spring. Measured flow 106 gpm on 12-13-57.
H-42	Frank Norah	. . . .	Spr	. . . .	. . . .	ꞒO	786	. . . .	. . . . . .	F	S	62	. . . .	. . . .	Boil type spring. Measured flow 183 gpm on 12-13-57.
H-43	H. G. Alexander . .	. . . .	Spr	. . . .	. . . .	ꞒO	812	. . . .	. . . . . .	F	R	. . . .	. . . .	. . . .	Supplies water to Alexander's lake and swimming pool. Measured flow 803 gpm on 12-13-57.
H-44	Alb Hyatt	. . . .	Spr	. . . .	. . . .	Mfp	719	. . . .	. . . . . .	F	S	. . . .	4	16	Boil type spring.
H-45	Alfriend Estate	. . . .	Spr	. . . .	. . . .	Ꞓw	1,286	. . . .	. . . . . .	F	D	61	4	24	Water issues from 2 fracture type openings. Supplies 5 people. Estimated flow 3 gpm on 12-19-57.
H-46	Earl and Arthur Davis	. . . .	Spr	. . . .	. . . .	Ꞓw	900	. . . .	. . . . . .	F	D,S	62	4	12	Water issues from fracture type opening. Supplies 7 people and 3 head of stock.
I- 1	Lloyd Smith	. . . .	Du	38.1	54	Ꞓc	710	4.5	4- 9-57	M	D	57	4	90	Supplies 7 people. Inadequate supply during dry seasons.
I- 2	F. J. Smith	Rogers Well Drillers.	D	84	6	Ꞓc	715	28.6	. . do . .	J	D	. . . .	11	180	Supplies 6 people. Casing: 6-in. to 84 ft.

Table 1. --Records of wells and springs in Calhoun County, Ala. --Continued

Well or spring No.	Owner	Driller	Type	Depth of well (feet)	Diameter of well (inches)	Water-bearing formation	Altitude of land surface (feet)	Water level		Method of lift	Use of water	Field determinations			Remarks
								Above (+) or below land surface (feet)	Date of measurement			Temperature (°F)	Chloride (ppm)	Hardness as $CaCO_3$ (ppm)	
I- 3	Davie Goss	Rogers Well Drillers.	D	57.1	6	Ꞓc	694	12.8	4- 9-57	C	D,S	. . . .	4	216	Supplies 5 people and 20 dairy cows.
I- 4	J. W. Buttram . . .	Charles Austin . .	D	65	6	Ꞓc	694	5.2	. . do . .	J	D,S	. . . .	4	180	Supplies 6 people and 5 head of stock. Casing: 6-in. to 65 ft.
I- 5	M. C. Buttram . . .	. . . . do	D	51	6	Ꞓc	691	9.2	. . do . .	J	D	. . . .	18	152	Supplies 2 people. Casing: 6-in. to 40 ft.; none below.
I- 6	Bethel Methodist Church.	Rogers Well Drillers.	D	64	6	Ꞓc	709	29.0	4- 2-57	J	P	. . . .	11	154	
I- 7	T. R. Grogan	Charles Austin . .	D	. . . .	6	Ꞓc	711	29.3	. . do . .	J	D	. . . .	4	96	Supplies 2 families.
I- 8	J. T. Kirk	. . . .	D	109	6	Ꞓc	749	81.4	4-10-57	J	D,S	. . . .	11	152	Supplies 13 people and 35 head of stock. Casing: 6-in. to 99 ft.; none below.
I- 9	Calhoun Co. Board of Education, Greenwood School.	. . . .	D	63	6	Ꞓc	703	. . . .	. . . . . .	J	P	. . . .	4	194	Supplies 63 students.
I-10	M. J. Whorton . . .	Rogers Well Drillers.	D	114	6	Ꞓc	725	29.2	4- 3-57	J	D	. . . .	4	152	Supplies 5 people. Casing: 6-in. to 100 ft.; none below.
I-11	J. W. Needham . .	Charles Austin . .	D	75	6	Ꞓc	712	22.0	. . do . .	J	D	. . . .	4	92	Supplies 3 people.
I-12	J. B. Wade	. . . . do	D	110	6	Ꞓc	726	46.1	4- 3-57	J	D	. . . .	4	190	Supplies 11 people.
I-13	Standard-Coosa-Thatcher Co.	. . . .	Du	85	54	Ꞓc (?)	701	. . . .	. . . . . .	T	Ind	. . . .	4	132	Supplies cotton mill. Well formerly supplied 150 families and mill.
I-14	City of Piedmont . .	. . . .	Spr	. . . .	. . . .	ꞒO	684	. . . .	. . . . . .	F	Ind	63	4	106	Measured flow 428 gpm on 7-12-57. Flows into lake used by ice plant. Formerly used as public water supply.
I-15	. . . . do	. . . .	. . .	. . . .	. . . .	Ꞓc	697	. . . .	. . . . . .	F	N	62	4	124	Measured flow 354 gpm on 7-12-57.
I-16	G. H. McCurdy . .	. . . .	Du	35.8	36	Ꞓs	708	12.2	3-28-57	M	N	60	4	50	
I-17	W. K. Guttery . . .	. . . .	D	110	6	Ꞓr	733	26.0	1950	J	D	. . . .	4	82	Supplies 2 people.
I-18	Lester Wade	. . . .	D	95	6	Ꞓc	702	17.5	4- 3-57	J	D,S	. . . .	4	102	Supplies 6 people and 40 head of stock.
I-19	A. L. Hurst	. . . .	Du	39.2	36	Ꞓs	704	24.2	. . do . .	J	D	. . .	4	88	Supplies 5 people.
I-20	J. B. Wade, Jr.	. . . .	D	90	6	Ꞓr	722	30	1953	J	D,S	. . . .	4	136	Supplies 10 people and 20 head of stock.

I-21	John W. Allen	Rogers Well Drillers.	D	88.6	6	Єr	715	20	54	J	D,S	. . . .	4	202	Supplies 4 people and 40 head of stock. Bedrock at 22 ft. below land surface. Casing: 6-in. to 24 ft.
I-22	R. T. Martin	F. O. Pugh . . .	D	146	6	Єc	784	82.8	4- 2-57	J	D	. . .	4	220	Supplies 6 people. Casing: 6-in. to 144 ft.
I-23	Dewey Lawler	Rogers Well Drillers.	D	83	6	Єc	722	29.6	. . do . .	J	D	. . . .	4	236	Supplies 5 people.
I-24	R. C. Mobley	Charles Austin .	D	254	6	Єc	769	75.8	. . do . .	M	D	61	4	96	Supplies 4 people. Casing: 6-in. to 250 ft. Slotted at bottom.
I-25	J. H. Wilson	. . . .	Du	31.3	24	Єc	711	9.0	. . do . .	J	D	. . . .	4	74	Supplies 2 people. Supply inadequate during dry seasons.
I-26	R. T. McCain	. . . .	Du	14.5	36	Єw	718	1.8	. . do . .	J	D	. . . .	4	72	Supplies 5 people. Water contains iron.
I-27	T. V. Rheinhart . .	. . . .	D	145	6	Єc	798	. . . .	. . . . . .	. . .	. . .	. . . .	. . . .	. . . .	
I-28	R. F. Sanford	. . . .	D	138	6	Єw	743	48.2	3-28-57	J	D	. . . .	4	30	Supplies 8 people.
I-29	T. H. Peace	. . . .	Du	42.7	36	Єs	730	14.3	. . do . .	J	D	. . . .	4	26	Supplies 3 people.
I-30	Homer Hitchcock . .	. . . .	Spr	. . . .	. . . .	Єc (?)	680	. . . .	. . . . . .	F	N	59	4	64	Known as "White Spring." Measured flow 19 gpm on 11-20-57.
I-31	W. T. or Horace Morgan.	. . . .	Spr	. . . .	. . . .	Єs	681	. . .	. . . . . .	F	N	59	3	88	Measured flow 153 gpm on 12-13-57.
I-32	Frank Sanford	. . . .	Spr	. . . .	. . . .	Єs	690	. . . .	. . . . . .	F	D	60	. . . .	62	Measured flow 240 gpm on 11-27-57.
J- 1	Vera Cole	. . . .	Du	27.7	30	Єw	869	19.6	3- 1-57	M	D	60	11	24	Supplies 5 people. Supply inadequate during dry season.
J- 2	J. A. Coppock	. . . .	Du	21.0	36	Єs	853	14.2	. . do . .	M	D	58	11	14	Supplies 2 people. Supply inadequate during dry season.
J- 3	W. L Greenleaf Estate.	. . . .	Du	36.1	36	Єs	858	27.6	. . do . .	M	D	61	60	30	Supplies 3 people. Supply inadequate and muddy in fall. Water contains iron.
J- 4	B. S. Cheatwood . .	Abernathy Well Drillers.	D	94	6	Єs	798	37.7	. . do . .	J	D,S	. . . .	4	188	Supplies 4 people and 40 head of stock. Casing: 6-in. to 90 ft. Bedrock at 15 ft. below land surface.
J- 5	Vitti Hall	. . . . do	D	77	6	Єs	788	34.0	. . do . .	J	D	. . . .	11	104	Supplies 1 person.
J- 6	W. A. Moore Estate	. . . .	Spr	. . . .	. . . .	ta	864	. . . .	. . . . . .	F	D	60	. . . .	. . . .	Estimated flow 3 gpm on 11-26-57.
J- 7	V. H. Hall	. . . .	Spr	. . . .	. . . .	Єs	769	. . . .	. . . . . .	F	N	60	. . . .	100	Measured flow 241 gpm on 11-26-57.
K- 1	Robert Lewis	. . . .	Du	25.9	42	Єc	784	9.7	3-11-57	M	D	59	4	96	Supplies 4 people. Supply inadequate during dry season.
K- 2	Cleve Taylor	. . . .	Du	53.9	36	ЄO	822	39.0	. . do . .	M	D	60	4	144	Supplies 3 people.
K- 3	B. W. Poland . . .	. . . .	D	104	6	Єc	824	16.8	3-14-57	J	D	. . . .	4	118	Supplies 5 people. Casing: 6-in. to 30 ft.; none below.
K- 4	R. O. Morgan . .	. . . .	D	. . . .	. . . .	Єc	820	. . . .	. . . . . .	J	D,S	. . . .	4	56	
K- 5	J. C. Lindsey . .	Rogers Well Drillers.	D	92	6	Єr (?)	861	34.7	3-14-57	J	D	. . . .	4	126	Supplies 2 people. Casing: 6-in. to 92 ft., with gravel packed bottom.

Table 1.--Records of wells and springs in Calhoun County, Ala.--Continued

Well or spring No.	Owner	Driller	Type	Depth of well (feet)	Diameter of well (inches)	Water-bearing formation	Altitude of land surface (feet)	Water level: Above (+) or below land surface (feet)	Water level: Date of measurement	Method of lift	Use of water	Field determinations: Temperature (°F)	Field determinations: Chloride (ppm)	Field determinations: Hardness as $CaCO_3$ (ppm)	Remarks
K- 6	E. D. Brown	. . . .	D	104.4	6	. . .	868	46.1	3-14-57	M	D	62	4	128	Supplies 4 people.
K- 7	George Watkins . .	Rogers Well Drillers.	D	. . . .	6	. .	884	55.9	. . do . .	C	D	. . .	4	96	Supplies 3 people.
K- 8	D. K. Upshaw . . .	Charles Austin.	D	96	6	Єc	840	41.9	. . do . .	J	D	. . .	4	114	Supplies 2 people.
K [illegible]	M. D. Barnwell .	Rogers Well Drillers.	D	162	6	Єc	841	. . . .	. . . . . .	J	D	. . .	4	30	Supplies 4 people.
K-10	L. W. Hollingsworth	. . . .	D	. . . .	6	Єc	858	27.2	3-14-57	J	D	. . .	4	230	
K-11	G. F. Hollingsworth	. . . .	D	. . . .	6	Єc	844	23.6	. . do . .	J	D	. . .	4	88	
K-12	N. Hollingsworth .	Rogers Well Drillers.	D	143.[illegible]	6	Єc	858	46.4	. . do . .	M	D	61	11	90	Do.
K-13	D. I Evans	. . . .	Du	[illegible]	36	[illegible]	333	8.6	3-11-57	M	D	57	11	15[illegible]	Supplies 9 people.
K-14	[illegible]att [illegible]avis	. . . .	Du	38.0	36	[illegible]O	854	5.2	. . do . .	M	D	. . .	. . .	. .	Supplies 3 people.
K-15	N. [illegible] Whiteside . .	Abernathy Well Drillers.	D	90	6	Єs	804	45	3-[illegible]-56	J	D	. . .	11	124	Supplies 6 people. Casing: 6-in. to 71 ft.; none below.
K-16	E. D. Whiteside . . .	. . . . do	D	82	6	Єs	808	44.7	3- 1-57	J	D, S	. . .	11	114	Supplies 6 people and 3,000 chickens. Casing: 6-in. to 62 ft.; none below.
K-17	Duran Whiteside . .	. . . .	Du	29.7	36	Єs	823	20.4	. . do . .	N	N	. . .	. . .	. . .	Water contains iron.
K-18	C. B. Snider	Roscoe Shipman .	D	106	6	ЄO	862	73.4	3-14-57	J	D	. . .	4	172	Supplies 5 people.
K-19	W. P. Boozer	. . . .	Du	28.7	30	. . .	792	10.1	3-11-57	M	D	57	4	50	Supplies 4 people. Well dry in fall of 1956.
K-20	Liston Snider	. . . .	Du	42.0	48	Єr	852	8.0	3-14-57	J	D	. . .	4	20	Drilled in 1839. Supplies 3 people.
K-21	James Stevenson . .	Charles Austin .	D	80	6	Єw	1,198	30.1	2-20-57	J	D	. . .	4	56	Supplies 4 people.
K-22	A. C. Shelton	. . . .	Du	28.4	36	Єw	911	6.7	. . do . .	M	D	59	4	34	Supplies 2 people.
K-23	. . . . do	. . . .	Du	26.9	42	Єw	817	18.8	. . do . .	M	D	61	4	30	Supplies 6 people.
K-24	Dan Henderson . .	Charles Austin . .	D	99	6	Єw	834	. . . .	. . . . . .	J	D	. . .	11	[illegible]	Supplies 6 people and store. Water contains iron.
K-25	[illegible]. A. Anderson . . .	. . . . do	D	103	[illegible]	Єw	858	30	5- -56	J	D	. . .	11	[illegible]	Supplies 5 people. Water contains iron. Casing: 6-in. to 20 ft.; none below.

K-26	Albert Parris	Charles Austin . .	D	90	6	Єw	849	12.1	2-25-57	J	D	. . . .	11	52	Well drilled inside a 20 ft. dug well. Supplies 4 people.
K-27	Clyde Hyatt	. . . . do	D	50	6	Єs	764	31.6	2-27 57	J	D, S	. . .	4	62	Supplies 3 people and 750 chickens.
K-28	P. W. Easterwood .	. . . . do	D	75	6	Єs	786	20.2	3- 1-57	J	D	. . . .	11	112	Supplies 6 people.
K-29	Ernest D. Hall	Abernathy Well Drillers.	D	77	6	Єs	779	42	8- -56	J	D, S	. . . .	11	66	Supplies 4 people and 2,700 chickens. Casing: 6-in. to 56 ft.; none below.
K-30	H. E. Stephens . . .	. . . .	D	47.5	36	Єw	773	29.6	3- 1-57	J	D	. . . .	54	58	Supplies 2 people. Water contains iron.
K-31	M. B. Brown	. . . .	Du	38.0	54	Єw	754	25.6	. . do . .	M	D	59	39	44	Supplies 7 people. Supply inadequate during dry season.
K-32	J. T. Martin	Carl Pace	D	96	6	. . .	779	46	1946	J	D	. . . .	11	188	Supplies 5 people. Well developed in fault zone.
K-33	. . . . do	. . . .	Du	45.5	36	Єw	763	27.3	2-27-57	M	D	61	11	22	Supplies 3 people.
K-34	George Hall	F. O. Pugh	D	105	6	Єs	796	54.7	. . do . .	J	D	. . . .	11	84	Supplies 2 people.
K-35	Leon Cheatwood . . .	. . . .	Du	36.4	36	Єs	780	19.4	. . do . .	M	D	61	11	10	Supplies 7 people. Supply inadequate during dry season.
K-36	J. T. Martin	Charles Austin . .	D	94.6	6	Єs	797	76.8	. . do . .	M	N	62	18	84	Well bail tested at 20 gpm in January 1956.
K-37	Leonard Roberts . .	. . . .	Du	24.1	42	Єw	748	18.0	2-25-57	J	D	. . . .	11	58	Supplies 4 people. Supply inadequate during dry season.
K-38	Whites Gap Baptist Church.	. . . .	D	78.3	6	Єw	834	38.0	2-20-57	J	. . . .	. . . .	4	44	
K-39	J. D. Coleman . . .	Charles Austin . .	D	87	6	Єw	766	30.1	2-21-57	J	D	. . . .	11	24	Supplies 2 people. Casing: 6-in. to 87 ft.
K-40	Raymond Borden . .	. . . .	Du	27.1	36	. . .	740	12.2	. . do . .	J	D	. . . .	39	48	Supplies 4 people.
K-41	Troy C. Hutto	F. O. Pugh . . .	D	95	6	Єs	740	24.6	. . do . .	J	D, S	. . . .	4	110	Supplies 7 people and 15 head of stock. Casing: 6-in. to 80 ft.; none below.
K-42	J. J. Orsborn . . .	Carl Pace	D	138	6	. . .	767	58	1954	J	D, S	. . . .	4	16	Supplies 3 people and 1,000 chickens. Casing: 6-in. to 136 ft.; none below.
K-43	Paul Easterwood . .	. . . .	Du	25.3	36	ta	841	17.5	2-27-57	M	D	58	11	28	Supplies 4 people. Supply inadequate during dry season.
K-44	Robert Lusk	. . . .	Spr	. . . .	. . . .	Єr	722	. . . .	. . . . . .	F	. . . .	60	4	106	Measured flow 40 gpm on 10-25-57.
K-45	Sparks Roberts . . .	. . . .	Spr	. . . .	. . . .	Єr (?)	779	. . . .	. . . . . .	F	D	61	4	118	Known as Roberts Springs. Measured flow 417 gpm on 10-25-57.
K-46	E. D. Whiteside . .	. . . .	Spr	. . . .	. . . .	Єs	767	. . . .	. . . . . .	F	S	. . . .	. . . .	82	Measured flow 182 gpm on 11-26-57.
K-47	Mary Brown	. . . .	Spr	. . . .	. . . .	Єs	807	. . . .	. . . . . .	F	N	60	. . . .	48	Measured flow 69 gpm on 11-26-57.
K-48	E. D. Whiteside . .	. . . .	Spr	. . . .	. . . .	Єw	. . .	. . . .	. . . . . .	F	D, S	. . . .	. . . .	6	Known as Brown's Spring. Estimated flow 2 gpm on 11-15-57.
K-49	--Walker	. . . .	Spr	. . . .	. . . .	Єc	798	. . . .	. . . . . .	F	N	60	4	128	Measured flow 188 gpm on 10-25-57.
K-50	A. C. Shelton	. . . .	Spr	. . . .	. . . .	Єw	997	. . . .	. . . . . .	F	S	64	4	118	Measured flow 364 gpm on 10-25-57.
K-51	H. F. Watson	. . . .	Spr	. . . .	. . . .	Єs	728	. . . .	. . . . . .	F	D, S	61	4	104	Known as Watson's House Spring. Measured flow 40 gpm on 11-1-57.

Table 1.--Records of wells and springs in Calhoun County, Ala.--Continued

Well or spring No.	Owner	Driller	Type	Depth of well (feet)	Diameter of well (inches)	Water-bearing formation	Altitude of land surface (feet)	Water level: Above (+) or below land surface (feet)	Water level: Date of measurement	Method of lift	Use of water	Field determinations: Temperature (°F)	Field determinations: Chloride (ppm)	Field determinations: Hardness as $CaCO_3$ (ppm)	Remarks
K-52	H. F. Watson	. . . .	Spr	. . . .	. . .	Єs	725	. . . .	. . . . . .	F	N	. . .	4	110	Known as Watson's Field Spring. Flows from fracture. Measured flow 116 gpm on 11-1-57.
K-53	M. B. Brown	. . . .	Spr	. . . .	. . .	Єs	737	. . . .	. . . . . .	F	S	61	4	174	Measured flow 278 gpm on 12-13-57.
K-54	Durand Whiteside . .	. . . .	Spr	. . . .	. . .	Єs	727	. . . .	. . . . . .	F	S	62	4	108	Known as Carpond Spring. Measured flow 430 gpm on 12-13-57.
K-55	Rita Easterwood . . .	. . . .	Spr	. . . .	. . .	ta	786	. . . .	. . . . . .	F	D	61	4	32	Known as Easterwood Spring. Measured flow 10 gpm on 11-1-57.
K-56	Girl Scouts of America, Camp Cottaguila.	. . . .	Spr	. . . .	. . .	Єw	1,139	. . . .	. . . . . .	F	P	60	4	16	Measured flow 18 gpm on 10-25-57.
K-57	E. D. Robinson, Jr.	. . . .	Spr	. . . .	. . .	Єw	1,168	. . . .	. . . . . .	F	D	59	4	10	Measured flow 9 gpm on 10-25-57.
K-58	Girl Scouts of America, Camp Cottaguila.	. . . .	Spr	. . . .	. . .	Єw	981	. . . .	. . . . . .	F	P	. . .	4	10	Supplies lake impounded for recreation, lake also fed by K-59. Measured flow 36 gpm on 10-25-57.
K-59	. . . . do	. . . .	Spr	. . . .	. . .	Єw	1,159	. . . .	. . . . . .	F	P	. . .	4	6	Measured flow 31 gpm on 10-25-57.
*L- 1	Thomas Martin . . .	. . . .	Spr	. . . .	. . .	Єc	627	. . . .	. . . . . .	F	N	65	4	10	Measured flow 1,880 gpm on 7-12-57.
L- 2	Paul Williams	. . . .	D	116.2	6	Єc	673	68.0	8-27-56	M	D	63	11	120	Supplies 15 people.
L- 3	Ervin Smith	. . . .	D	74.9	6	Єc (?)	637	36.0	8-28-56	M	D	62	11	212	Supplies 7 people.
L- 4	W. C. Keenum . . .	Hawthorne Well Drillers.	D	88.7	6	Mf	635	9.4	. . do . .	M	D	70	67	540	Supplies 4 people.
L- 5	Tredegar Chapel .	. . . . do	D	. . . .	6	Mf	648	23.2	. . do . .	J	D	. . .	46	720	Supplies 2 people and church.
L- 6	Sam Williams . . .	. . . .	Du	23.6	36	Mf	619	17.9	8-17-56	M	D	63	53	284	Supplies 6 people.
L- 7	Dave Parris	. . . .	Du	23.6	36	Mf	626	14.1	. . do . .	M	D	63	60	74	Supplies 4 people.
L- 8	Emmett McFall . .	W. M. Hancock .	D	100.3	6	ЄO	688	69.4	8-29-56	J	D	. . .	18	40	Supplies 5 people.
L- 9	Olen Parris	. . . .	D	95	6	. . .	633	40	7- -56	J	D	. . .	11	126	Supplies 4 people.
L-10	O. A. Johnson . . .	. . . .	Du	45.9	36	ЄO	658	23.8	8-21-56	M	D	61	4	26	Do.
L-11	J. Poole	. . . .	D	78.4	6	ЄO	648	65.5	8-16-56	M	D	63	11	14	Supplies 3 people. Water contains iron.

L-12	W. H. Angel	Carl Pace	D	93	6	ЄO	586	15.6	8-16-56	J	D, S	. . .	11	198	Supplies 20 people and 20 head of stock. Casing: 6-in. to 14 ft.
L-13	F. T. Angel	. . . .	Spr	. . . .	. . . .	ЄO	577	. . . .	7-12-57	F	S	63	4	156	Dry on 10-5-56. Measured flow 738 gpm on 7-12-57.
L-14	Calhoun Co. Highway Department and John Boozer.	. . . .	Spr	. . . .	. . . .	Mfp	578	. . . .	. . . . . .	F	D, S. P	63	4	144	Supplies county school. Measured flow 563 gpm on 7-12-57.
L-15	James H. Smith . . .	. . . .	D	62.7	6	ЄO	614	44.3	8-16-56	J	D	. . . .	4	100	Supplies 6 people.
L-16	Wheeler Wilkins . .	. . . .	Du	25.5	42	ЄO	611	16.1	. . do . .	M	D	63	25	136	Supplies 14 people.
L-17	J. C. Gorey	. . . .	Du	46.1	36	ЄO	640	30.6	8-17-56	J	D	. . . .	39	144	Supplies 5 people and store.
L-18	L. Almaroad	. . . .	Du	20	36	Mf	625	14.0	8-10-56	M	D	63	32	130	Supplies 5 people.
L-19	H. G. Thackerson .	Rogers Well Drillers.	D	95.5	6	Mf	657	10.0	8-16-56	J	D	. . . .	18	714	Supplies 4 people. Bedrock at 15 ft.
L-20	Charles Griffen . . .	. . . .	D	48	6	Mf	617	35.4	8-17-56	J	D	. . . .	11	162	Supplies 7 people.
L-21	City of Jacksonville	. . . .	Spr	. . . .	. . . .	Єc	651	. . . .	. . . . . .	F	P	63	4	108	Measured flow 1,197 gpm on 7-12-57.
L-22	Willie Lee Jelkes . .	Roscoe Shipman .	D	72.5	6	Єc	645	37.1	8-14-56	M	D	63	11	198	Supplies 7 people.
L-23	Q. E. Dungan	. . . .	Du	18.5	36	Mf	624	11.0	. . do . .	C	D	. . . .	32	1,908	Supplies 11 people.
L-24	Austin Gray	. . . .	Du	33.1	30	Mf	599	11.9	. . do . .	M	N	66	25	446	
L-25	John V. Cardin . .	W. M. Hancock .	D	92	6	Mf	601	20.1	. . do . .	J	D	. . . .	25	198	Supplies 10 people. Casing: 6-in. to 40 ft.; none below. Bail tested at 600 gph August 1956.
L-26	E. C. Carr	. . . .	Du	27.4	36	Mf	624	10.2	8-16-56	N	N	. . . .	. . . .	. . . .	
L-27	Dan Williams	. . . .	Du	18.1	30	Mf	624	12.1	8-14-56	C	D	. . . .	25	430	Supplies 3 people.
L-28	O. H. Brown	. . . .	Du	28.8	42	Mf	614	17.6	. . do . .	J	D	. . . .	39	104	Supplies 5 people.
L-29	Obra and J. W. Smith	. . . .	Du	28.3	30	Mf	578	19.2	8- 6-56	M	D	64	60	202	Supplies 2 people.
L-30	John R. and Francis Page.	Carl Pace	D	73.7	6	Mf	599	26.9	8-15-56	J	D	. . . .	75	522	Supplies 3 people.
L-31	Fred Davie	. . . .	D	127.2	6	Mf	598	21.9	8-14-56	J	D, S	. . . .	32	182	Supplies 13 people and 40 head of stock.
L-32	L. H. Morris	J. F. Dalrymple	D	900	6	Mf	637	56.2	. . do . .	J	D	. . . .	11	112	Supply inadequate.
L-33	Joe Dudley	Roscoe Shipman .	D	105.7	6	Єc	638	9.9	8- 9-56	M	D	. . . .	11	156	Supplies 15 people. Casing: 6-in. to 12 ft.; none below.
L-34	C. N. Tolbert	. . . . do	D	166.2	6	Єc	671	64.6	. . do . .	M	D, S	63	11	280	Supplies 5 people and 1 head of stock. Casing: 6-in. to 38 ft.; none below.
L-35	Dean Edwards	. . . .	Du	61.1	42	Єc	707	57.1	8-10-56	M	D	63	11	130	Supplies 9 people.
L-36	Frances Greenleaf .	Roscoe Shipman .	D	69.1	5.5	Єc	694	42.8	8-14-56	M	D	63	11	172	Supplies 6 people.
L-37	Huston Parris	. . . .	Du	19.0	36	. . .	727	15.1	8-13-56	J	D	. . . .	11	38	Supplies 3 people. Supply inadequate.
L-38	James C. Ray	Charles Austin .	D	62.3	6	Єc (?)	763	13.5	2-20-57	M	D	63	4	132	Supplies 6 people.

Table 1. --Records of wells and springs in Calhoun County, Ala. --Continued

Well or spring No.	Owner	Driller	Type	Depth of well (feet)	Diameter of well (inches)	Water-bearing formation	Altitude of land surface (feet)	Water level: Above (+) or below land surface (feet)	Water level: Date of measurement	Method of lift	Use of water	Field determinations: Temperature (°F)	Field determinations: Chloride (ppm)	Field determinations: Hardness as $CaCO_3$ (ppm)	Remarks
L-39	John A. Hitt	Emmett Green . .	D	65.9	6	Ꞓc (?)	780	12.4	2-20-57	M	S	62	4	70	Supplies 5 head of stock.
L-40	L. A. Crow	Charles Austin .	D	55	6	Mf (?)	785	. . . .	. . . . . .	J	D	. . . .	53	1,224	Supplies 6 people.
L-41	Troy Parker	. . . .	D	56	6	Mf (?)	823	13.9	2-20-57	J	D	. . . .	4	190	Supplies 3 people.
L-42	Kaylor Currie	. . . .	D	108	6	Mf (?)	791	37.3	. . do . .	J	D	. . . .	4	292	Supplies 7 people.
L-43	Charles Glover	Emmett Green . .	D	133	6	Mf (?)	811	58.9	8-13-56	J	D	. . . .	18	244	Supplies 3 people. Casing: 6-in. to 120 ft.; none below.
L-44	Wesley Holder . . .	Abernathy Well Drillers.	D	238	6	Mf (?)	754	31.6	. . do . .	J	D	. . . .	25	164	Supplies 2 people. Casing: 6-in. to 200 ft.; none below.
L-45	William McCurry .	. . . . do	D	100.4	6	. .	781	54.5	. . do . .	M	D	63	11	114	Supplies 4 people.
L-46	J. E. Richardson .	. . . .	D	80	6	Ꞓr	762	58.2	10-30-56	J	D	. . . .	4	90	
L-47	Jabe Curry	Roscoe Shipman .	D	37.5	6	Ꞓr	719	26.1	8-13-56	J	D	. . . .	18	110	Supplies 2 people.
L-48	Raymond Smith . .	Charles Austin . .	D	95	6	Ꞓr	735	50.1	8-10-56	J	D	. . . .	11	26	Supplies 10 people.
L-49	W. H. Aderholt . .	. . . .	Du	22.3	36	Ꞓr	704	12.5	10-30-56	C	D	. . . .	11	154	Supplies 8 people.
L-50	E. L. Rivers	Roscoe Shipman .	D	72.6	6	Ꞓr	711	48.8	8-10-56	J	D	. . . .	11	188	Supplies 7 people.
L-51	R. F. Kilgore . . .	. . . . do	D	219	6	Ꞓr	720	67.2	. . do . .	J	D	. . . .	11	132	Supplies 6 people. Casing: 6-in. to 70 ft.; none below.
L-52	Jack Broughan . . .	. . . . do	D	209	6	Ꞓc	699	74.9	8- 9-56	J	D	. . . .	11	176	Supplies 6 people.
*L-53	A. F. Glass	. . . .	Spr	. . . .	. . . .	Ꞓc	605	. . . .	. . . . . .	F	D, S	63	4	154	Measured flow 320 gpm on 7-25-57.
L-54	Henry Rhodes . . .	. . . .	Spr	. . . .	. . . .	Ꞓc	601	. . . .	. . . . . .	F	D, S	64	4	220	Measured flow 5 gpm on 7-25-57.
L-55	Amy Taylor	Carl Pace	D	79	6	Ꞓr	610	58.6	8- 9-56	J	D	. . . .	4	150	Supplies 7 people. Casing: 6-in. to 16 ft.; none below.
L-56	H. J. Amerson .	H. J. May . . .	D	535	6	Mf	642	48.1	8- 8-56	J	D	. . . .	11	130	Supplies 4 people. Casing: 6-in. to 20 ft.; none below.
L-57	H. J. Clark	. . . .	Du	30.4	42	Ꞓr	605	29.4	. . do . .	M	D	62	25	176	Supplies 7 people.

Well or spring No.	Owner	Driller	Type	Depth of well (feet)	Diameter of well (inches)	Water-bearing formation	Altitude of land surface (feet)	Water level		Method of lift	Use of water	Field determinations			Remarks
								Above (+) or below land surface (feet)	Date of measurement			Temperature (°F)	Chloride (ppm)	Hardness as $CaCO_3$ (ppm)	
M-11	John E. Phillips . .	Alvin Yancy . . .	D	70	6	Mf	561	30.3	12- 4-56	J	D	. . . .	11	252	Supplies 9 people. Casing: 6-in. to 38 ft.; none below.
M-12	H. O. Roberts . . .	. . . .	Du	30.5	36	Mf	568	28.0	12- 3-56	C	D	. . . .	4	42	Supplies 6 people. Supply inadequate during dry season.
M-13	S. W. Lloyd	. . . .	Du	40.7	36	Mf	600	38.1	. . do . .	J	D	. . . .	4	42	Supplies 3 people.
M-14	Howard Rich	. . . .	Du	20.2	36	Mf	568	19.4	. . do . .	M	D	. . . .	11	216	Supplies 2 people. Supply inadequate during dry season.
M-15	Maude Burchfield .	. . . .	Spr	. . . .	. . . .	Mf	531	. . . . .	. . . . . .	F	D	63	4	136	Measured flow 40 gpm on 7-15-57.
M-16	Ralph Mangum . . .	. . . .	D	68.1	6	Mf	579	41.8	11-15-56	J	D	. . . .	4	186	Supplies 5 people.
M-17	T. A. Harrelson .	Emmett Green . .	D	105	6	Mf	575	29.3	11-14-56	J	D	. . . .	11	20	Supplies 3 people.
M-18	Ida Martin	. . . . do	D	74.5	6	Mf	598	35.9	11-15-56	J	D	. . . .	18	84	Supplies 2 people.
M-19	Pat Owens	. . . .	D	81	6	Mf	587	. . . . .	. . . . . .	J	D	. . . .	11	104	
M-20	I. L. Prickett . . .	M. E. Walters .	D	63.2	4	Mf	580	22.0	11-13-56	J	D	. . . .	4	78	Supplies 9 people.
M-21	Joe Martin	. . . .	D	124.5	6	Mf	536	9.6	11- 6-56	N	N	. . . .	. . . .	. . . .	
M-22	J. P. Phillips . . .	M. E. Walters .	D	76.3	6	Mf	544	7.6	. . do . .	J	D	. . . .	167	3,000	Used only in bathroom.
M-23	B. Chastain	Abernathy Well Drillers.	D	122.1	6	Mf	572	14.6	11-13-56	J	D	. . . .	11	380	Supplies 4 people. Well drilled inside of dug well.
M-24	Cliff Harrison . . .	. . . do	D	86.2	6	Mf	576	20.3	. . do . .	J	D	. . . .	4	750	Supplies 4 people. Casing: 6-in. to 10 ft.; none below.
M-25	E. Prickett, Jr. .	F. O. Pugh	D	90	6	Єc	583	40.6	11- 8-56	J	D	. . . .	4	120	Supplies 4 people.
M-26	J. W. Surrett . . .	. . . .	Du	40.2	36	Mf	592	33.3	8-15-56	J	D	. . . .	32	408	Supplies 2 people.
M-27	S. R. Bryant . . .	Emmett Green . .	D	77.3	6	Mfp	605	16.3	. . do . .	J	D	. . . .	11	156	Casing: 6-in. to 29 ft.; none below. Supplies 6 people.
M-28	M. D. Clark . . .	. . . .	D	68.1	6	Mf	610	41.0	8-20-56	J	D, S	. . . .	4	142	Supplies 3 people and 100 head of stock.
M-29	Jack Broughan . .	. . . .	Du	26.8	30	Mf	600	18.7	8-15-56	M	D	63	4	14	Supplies 4 people. Dry during fall months.

L-58	L. T. Hooper	. . . .	D	105.8	6	Ꞓr	672	53.3	8- 6-56	J	D	. . . .	11	148	Supplies 4 people.
L-59	Kenneth Robertson	Alabama-Pennsylvania Drilling Co.	D	176.3	6	Ꞓr	648	59.9	. . do . .	J	D	. . . .	11	150	Supplies 3 people.
L-60	--Whitmore	. . . .	Du	21.3	36	Ꞓr	651	20.3	8- 9-56	M	D	. . . .	18	108	Supplies 2 people. Supply inadequate during dry season.
L-61	E. G. Comer	. . . .	D	79.5	6	. . .	712	41.5	. . do . .	J	D	. . . .	11	110	Supplies 6 people.
L-62	Garvin Leghey	. . . .	Du	15.2	42	Ꞓc	648	8.7	. . do . .	M	D	66	18	18	Supplies 7 people.
L-63	Elliott Stoffregem	Roscoe Shipman	D	. . . .	8	Ꞓc	712	8.1	8-14-56	N	N	. . . .	4	98	
L-64	W. O. Reaves	Charles Austin	D	100	6	Ꞓc	744	43.2	. . do . .	J	D	. . . .	11	146	
L-65	W. L. Kadle	J. C. Hulgan	D	22.7	6	Ꞓc	722	18	10-30-56	M	D	63	32	110	Supplies 7 people. Supply inadequate during dry season.
L-66	Frances Greenleaf	. . . .	Spr	. . . .	. . . .	Ꞓc	730	. . . .	. . . . . .	F	D	63	2	91	Measured flow 793 gpm on 7-24-57.
L-67	J. H. Edwards	. . . .	Spr	. . . .	. . . .	Ꞓc	597	. . . .	. . . . . .	F	S	62	4	162	Known as Edwards Spring. Measured flow 471 gpm on 10-16-57.
L-68	Homer Hogan	. . . .	Spr	. . . .	. . . .	Ꞓr	605	. . . .	. . . . . .	F	N	60	4	10	Estimated flow 3 gpm on 10-22-57.
L-69	Horace Tolbert	. . . .	Spr	. . . .	. . . .	Ꞓc	605	. . . .	. . . . . .	F	S	62	4	162	Known as Tolbert Springs. Measured flow 435 gpm on 10-17-57.
L-70	C. J. King	. . . .	Spr	. . . .	. . . .	Ꞓr	593	. .	. . . . . .	F	S	. . . .	. . . .	. . . .	Known as King's Spring. Supplies fish ponds. Measured flow 242 gpm on 10-16-57.
L-71	Pearl Furgeson	. . . .	Spr	. . . .	. . . .	Ꞓr	641	. . . .	. . . . . .	F	D	62	4	134	Measured flow 18 gpm on 10-17-57.
L-72	Charles A. Hamilton	. . . .	Spr	. . . .	. . . .	Ꞓr	693	. . . .	. . . . . .	F	D	62	4	120	Known as Foremile Springs. Measured flow 211 gpm on 10-24-57.
M- 1	C. T. Nunnally	Carl Pace	D	112	6	Mf	585	26.5	8-20-56	J	D	. . . .	11	144	Supplies 17 people. Casing: 6-in. to 14 ft.; none below. Cavity at 112 ft.
M- 2	T. J. Mooney	Roscoe Shipman	D	62.5	6	Mfp	599	20	7- -53	C	D	. . . .	. . . .	. . . .	Supplies 5 people. Casing: 6-in. to 24 ft.; none below.
M- 3	F. F. Webster	. . . .	D	151.1	6	Mf	585	32.2	11-14-56	M	D	62	18	264	Supplies 8 people. Casing: 6-in. to 43 ft.; none below.
M- 4	J. H. Gilchrist	Abernathy Well Drillers.	D	135.6	6	Mf (?)	614	41.5	11-15-56	J	D	. . . .	4	196	Supplies 2 people. Casing: 6-in. to 62 ft.; none below.
M- 5	A. O. Littleton	. . . .	D	83.9	6	Mf (?)	625	64.7	. . do . .	J	D	. . . .	4	124	Supplies 2 people.
M- 6	Stanley Kennedy	. . . .	D	87	6	. . .	558	33.3	12- 4-56	J	D	. . . .	18	102	Do.
M- 7	Carl Williamson	Alvin Yancy	D	. . . .	6	Mf	523	25.6	12-13-56	J	D	. . . .	11	290	Supplies 7 people. Water contains iron.
M- 8	J. F. Martin	. . . . do	D	84	6	Mf	548	17.3	12-10-56	J	D	. . . .	25	422	Supplies 3 people. Bedrock at 9 ft.
M- 9	Lizzie Lee	M. E. Walters	D	72	6	Mf	628	. . . .	. . . . . .	J	D	. . . .	. . . .	. . . .	Supplies 5 people.
M-10	Sam Martin	. . . .	Du	68.2	36	Mf	604	35.4	12- 4-56	M	D	62	25	. . . .	Supplies 2 people. Supply inadequate during dry

M-30	Dean Edwards . . .	. . . .	Du	25.3	42	Mf	575	24.1	8-16-56	M	D	. . . .	. . . .	. . . .	Supplies 8 people. Supply inadequate during dry season.
M-31	John McKenzie . .	. . . .	Du	53.8	24	Mf	584	50.3	8-15-56	M	D	62	11	24	Supplies 6 people.
M-32	--Reaves	. . . .	Du	55.2	36	Єr	601	30.4	. . do . .	M	D	62	18	106	Supplies 4 people. Supply inadequate during 1955.
M-33	E. C. Prickett . .	Carl Pace	D	99	6	Єc	578	48.0	. . do . .	J	D, S	. . . .	11	128	Supplies 13 people and 23 head of stock.
M-34	Grover Prickett .	. . . .	D	97.7	6	Єc	542	16.1	. . do . .	J	D	. . . .	18	214	Supplies 4 people.
M-35	S. J. Love	J. F. Dalrymple	D	121	6	Єc	553	27.4	. . do . .	J	D	. . . .	18	178	Supplies 6 people. Casing: 6-in. to 75 ft.; none below.
M-36	H. L. Cheatham .	Alvin Yancy . . .	D	69.5	6	Єc	567	45.3	11- 8-56	J	D	. . . .	4	106	Supplies 4 people. Water contains iron.
M-37	Charles Thompson	J. F. Dalrymple	D	63.5	6	Єc	571	45.2	. . do . .	J	D	. . . .	4	164	Supplies 3 people.
M-38	Sidney Walker . . .	. . . .	Spr	. . . .	. . . .	Єc	523	. . . .	. . . . . .	F	D, S	62.5	4	142	Measured flow 271 gpm on 7-15-57.
M-39	C. A. Nunnelley .	. . . .	D	. . . .	6	Єc	558	. . . .	. . . . . .	J	D	. . . .	. . . .	. . . .	
M-40	P. A. Dickie	. . . .	D	105.2	6	Єc	556	28.4	11- 7-56	N	N	. . . .	. . . .	. . . .	Very little water. Test hole contains no casing.
M-41	. . . . do	. . . .	Spr	. . . .	. . . .	Єc	526	. . . .	. . . . . .	F	D	64	11	186	Supplies 3 people. Measured flow 27 gpm on 7-15-57.
M-42	C. C. Hawthorne .	Clyde Hurst . . .	D	101	6	Єc	603	76.3	11- 5-56	J	D	. . . .	4	94	Supplies 6 people.
M-43	Elbert Saxon	. . . .	D	99.7	6	Єc	571	18.7	. . do . .	N	N	. . . .	. . . .	. . . .	
M-44	T. C. Marlow . . .	. . . .	D	134.9	6	Mf	549	21.1	11- 8-56	J	D	. . . .	4	266	Supplies 1 person.
M-45	James M. Cheatham	Alvin Yancy . . .	D	66	6	Mf	539	12.7	. . do . .	J	D	. . . .	18	264	Supplies 3 people. Casing: 6-in. to 21 ft.; none below. Bedrock at 20 ft. below land surface.
M-46	D. E. Jenkins . . .	. . . .	Du	14.8	36	Mf	545	12.9	12- 3-56	M	D	. . . .	11	88	Supplies 5 people.
M-47	A. B. Scott	. . . .	Du	20.1	36	Mf	575	15.5	. . do . .	M	D	62	11	118	Supplies 14 people.
M-48	B. Howard	Alvin Yancy . . .	D	80	6	Mf	530	21.8	12- 4-56	J	D	. . . .	11	196	Supplies 5 people. Casing: 6-in. to 22 ft.; none below.
M-49	John Albert Smith.	. . . .	Spr	. . . .	. . . .	. . .	524	. . . .	. . . . . .	F	D	61	4	178	Supplies 2 people and fish pond. Measured flow 154 gpm on 8-5-57.
M-50	T. L. Finley	. . . .	D	. . . .	6	Mf	529	38.6	12- 3-56	J	D	. . . .	11	206	Supplies 2 people. Water contains iron.
M-51	J. C. Taylor	. . . .	Du	42.1	36	Mf	541	39.9	12- 4-56	M	D	60	18	132	Supplies 6 people.
M-52	Joe McClellan . . .	. . . .	Du	33.8	36	Mf	534	32.4	. . do . .	M	D	60	18	160	Supplies 4 people.
M-53	J. T. Guthrie . . .	Emmett Green .	D	117.4	6	Єc	555	24.9	11-30-56	M	N	63	11	54	
M-54	Thomas Jones . . .	Alvin Yancy . . .	D	69.7	6	Єc	532	34.7	11-29-56	N	N	. . . .	. . . .	. . . .	
M-55	. . . . do	F. O. Pugh . . .	D	119	6	Єc	540	41.8	. . do . .	J	D	. . . .	4	16	Supplies 5 people.
M-56	Edward Howard . .	Carl Pace	D	138	6	Єc	535	. . . .	. . . . . .	C	D	. . . .	18	274	Supplies 7 people.
M-57	S. V. Higginbotham	. . . .	D	125	6	Єc	564	53.5	11-29-56	J	D	. . . .	11	362	Supplies 5 people.

Table 1.--Records of wells and springs in Calhoun County, Ala.--Continued

Well or spring No.	Owner	Driller	Type	Depth of well (feet)	Diameter of well (inches)	Water-bearing formation	Altitude of land surface (feet)	Water level		Method of lift	Use of water	Field determinations			Remarks
								Above (+) or below land surface (feet)	Date of measurement			Temperature (°F)	Chloride (ppm)	Hardness as $CaCO_3$ (ppm)	
M-58	W. G. Howard	Abernathy Well Drillers.	D	93.8	6	Ꞓc	619	33.4	11- 5-56	J	N	. . . .	. . . .	. . . .	Well used very little. Muddy after rains.
M-59	. . . . do	. . . . do	D	200	6	Ꞓc	628	. . . .	. . . . . .	J	D, S	. . . .	4	116	Supplies 5 people and 1 head of stock.
M-60	O. W. Alexander . .	. . . .	D	127.9	6	Ꞓc	566	47.7	11- 5-56	J	D	. . . .	11	206	Supplies 4 people.
M-61	Vester Bryce	. . . .	D	99.5	6	Ꞓc	571	16.5	. . do . .	J	D	. . . .	4	390	Supplies 7 people.
M-62	Louis Hammonds . .	Carl Pace	D	120	6	Ꞓc	540	19.7	11- 6-56	J	D, S	. . . .	4	244	Supplies 3 people and 3 head of stock. Casing: 6-in. to 40 ft.; none below.
M-63	Grace Posey	Rogers Well Drillers.	D	68	6	Ꞓc (?)	588	29.3	6-17-57	J	D	. . . .	4	202	Supplies 6 people.
M-64	G. E. Smith	. . . .	Du	24.8	36	Ꞓc (?)	585	17.7	11- 6-56	M	D	63	18	152	Supplies 3 people.
M-65	Sam Crook	. . . .	Du	24.1	48	Ꞓr	644	20.3	8- 6-56	M	D	. . . .	25	40	Do.
M-66	W. L. Howard . . .	. . . .	Du	27.3	48	Ꞓc	622	20.9	. . do . .	M	D	. . . .	18	36	Supplies 5 people.
M-67	Robert Lamar . . .	. . . .	Du	22.2	42	Ꞓc	641	14.8	. . do . .	M	D	65	53	390	Supplies 1 house.
M-68	Linwood Haynie . .	Abernathy Well Drillers.	D	150	6	Ꞓc	605	27.8	. . do . .	J	D	. . . .	25	272	Supplies 6 people.
M-69	W. I. McClellan . .	. . . .	Du	33.2	36	Ꞓc	641	32.1	. . do . .	M	D	62	18	24	Supplies 5 people.
M-70	Norma McClellan .	. . . .	Du	19.3	42	Ꞓc	596	16.3	. . do . .	M	D	. . . .	18	140	Supplies 11 people.
M-71	Joseph F. Young .	Clyde Hurst . . .	D	121.9	6	Ꞓc	615	37.1	10-30-56	J	N	. . . .	. . . .	. . . .	Casing: 6-in. to 35 ft.; none below. Bedrock at 31 ft.
M-72	. . . . do	. . . .	Du	36.1	48	Ꞓc	606	31.0	8- 6-56	J	D, S	. . . .	18	168	Supplies 3 people and 7,500 chickens.
M-73	T. R. Fallon	Carl Pace	D	84.6	6	Ꞓc	630	66.1	11- 5-56	J	D	. . . .	4	144	Supplies 2 people.
M-74	Wallace Woodward, Sr.	. . . .	D	56.1	6	Ꞓc	591	32.2	. . do . .	M	D	63	18	258	Do.
M-75	Frank J. Little . .	. . . .	D	59.6	6	Ꞓc	584	27.3	. . do . .	J	D	. . . .	4	156	Supplies 11 people.
M-76	W. F. Cargal . . .	Alvin Yancy . . .	D	91	6	Ꞓc	574	49.2	11- 2-56	J	D	. . . .	4	58	Supplies 3 people. Casing: 6-in. to 66 ft.; none below.

M-77	L. L. Harrelson . .	Alvin Yancy . . .	D	103	6	Єc	586	18	12- -56	J	D	. . . .	4	120	Supplies 3 people.
M-78	F. W. McClellan .	. . . .	D	100	6	Єc	558	29.5	11- 5-56	J	. . .	. . . .	[illegible]	176	Supplies motel.
M-79	William L. Curvin	. . . .	D	. . . .	6	Єc	557	. . . .	. . . . . .	J	D	. . . .	4	146	
M-80	O. B. Amberson . .	Ben Owens	D	85	6	Єc	557	. . . .	. . . . . .	J	D, S	. . . .	11	226	Supplies 4 people and 30 head of stock.
M-81	Ernest F. Smith . .	. . . . do	D	93	6	Єc	560	43	1954	J	D, S	. . . .	11	210	Supplies 4 people and 10 head of stock.
M-82	Eugene Smith	. . . .	D	140	6	Єc	532	11.2	11-23-56	J	D	. . . .	11	224	Supplies 5 people. Casing: 6-in. to 13 ft.; none below. Bail tested at 1,500 gph.
M-83	H. A. McKee	. . . .	D	53	6	Єc	530	15.5	11-21-56	C	D	. . . .	4	330	Supplies 2 people and store. Casing: 6-in. to 17 ft.; none below.
M-84	Roy Guthrie	Alvin Yancy . . .	D	91	6	Єc	527	15	8- -56	J	D	. . . .	11	226	Supplies 5 people. Casing: 6-in. to 16 ft.; none below.
M-85	W. L. Guthrie . . .	. . . . do	D	53	6	Єc	528	14	9- -56	J	D	. . . .	18	220	Supplies 10 people. Casing: 6-in. to 16 ft.; none below.
M-86	J. C. McCullars .	Carl Pace	D	. . . .	6	Єc	520	. . . .	. . . . . .	J	D	. . . .	11	234	Supplies 7 people.
M-87	W. G. McCullars .	. . . . do	D	62	6	Єc	514	. . . .	. . . . . .	C	D	. . . .	11	292	Supplies 3 people. Casing: 6-in. to 5 ft.; none below.
M-88	A. L. Welch	. . . .	D	53	6	Єc	516	10.8	11-23-56	J	D	. . . .	11	280	Supplies 2 people. Casing: 6-in. to 5 ft.; none below.
M-89	C. V. Sims	Carl Pace	D	85	6	Єc	520	20	7- -55	C	D	. . . .	11	120	Supplies 2 people and store.
M-90	W. L. McCullars . .	. . . .	D	49.3	6	Єc	528	16.6	11-23-56	M	D	64	39	292	Supplies 5 people.
*M-91	McCullars' Estate .	. . . .	Spr	. . . .	. . . .	ЄO	518	. . . .	. . . . . .	F	N	65	11	124	Measured flow 2,410 gpm on 7-26-56.
M-92	A. A. Snelling	. . . .	D	127.5	6	Єc	556	28.7	11-23-56	M	D	61	4	208	Supplies 5 people.
M-93	W. L. McCullars . .	. . . .	D	70.8	6	Ob (?)	556	29.2	. . do . .	M	D	61	4	224	Supplies 6 people.
M-94	J. D. Poss	Abernathy Well Drillers.	D	227	6	Mf	560	25.8	2- 7-57	M	D	. . . .	. . . .	. . . .	Supplies 3 people. Casing: 6-in. to 48 ft.; none below.
M-95	C. O. Poss	Alvin Yancy . . .	D	61.4	6	Mf	558	32.7	11-23-56	M	D	63	11	152	Supplies 2 people.
M-96	J. B. Scott	Ben Owens	D	85	6	Mf	556	60	5- -56	J	D	. . . .	11	240	Supplies 3 people. Casing: 6-in. to 50 ft.; none below.
M-97	W. H. Gardner . . .	Alabama-Pennsylvania Drilling Co.	D	194	6	ЄO	698	167.2	11-20-56	J	D	. . . .	4	166	Supplies 11 people.
M-98	J. R. Phillips	Carl Pace	D	197	6	ЄO	697	172	10- -56	S	D	. . . .	4	132	Supplies 21 people.
M-99	L. B. Kerr	. . . . do	D	192	6	ЄO	696	169.1	11-20-56	C	D	. . . .	4	226	Supplies 5 people.
M-100	Eugene Turner . . .	Alabama-Pennsylvania Drilling Co.	D	125.3	4	Єc	630	103.1	. . do . .	T	D	. . . .	4	280	Supplies 13 people.
M-101	Carl Pace	Carl Pace	D	68.9	6	Єc	640	20.1	11-19-56	N	N	. . . .	. . . .	. . . .	
M-102	L. Z. Shurbutt	. . . . do	D	105	6	Єc	562	45	12- -55	J	D, S	. . . .	11	154	Supplies 9 people and 20 head of stock. Casing: 6-in. to 30 ft.; none below.

Table 1. --Records of wells and springs in Calhoun County, Ala. --Continued

Well or spring No.	Owner	Driller	Type	Depth of well (feet)	Diameter of well (inches)	Water-bearing formation	Altitude of land surface (feet)	Water level		Method of lift	Use of water	Field determinations			Remarks
								Above (+) or below land surface (feet)	Date of measurement			Temperature (°F)	Chloride (ppm)	Hardness as $CaCO_3$ (ppm)	
M-10[illegible]	G. D. Broom	Carl Pace	D	56.1	6	Єc	568	46.1	11-19-56	J	D	. . . .	11	266	Supplies 7 people.
M-104	W. T. Ponder . . .	. . . . do	D	57.9	6	Єc	559	36.7	. . do . .	J	D,S	. . . .	11	324	Supplies 14 people and 35 head of stock. Water is muddy after rain.
M-105	E. D. Truitt	Alvin Yancy . . .	D	94	6	Єc	559	18.7	11- 2-56	J	D	. . . .	4	224	Supplies 2 people. Casing: 6-in. to 22 ft.; none below.
M-106	S. A. Pate	. . . .	D	34.4	6	Єc	565	22.1	11-19-56	J	N	. . . .	. . . .	. . . .	
M-107	G. W. Miller . . .	Carl Pace	D	79.8	6	Єc	597	38.9	11- 2-56	J	D	. . . .	11	140	Supplies 15 people.
M-108	J. L. Broome . .	. . . .	D	94	6	Єc	567	16.3	. . do . .	J	D,S	. . . .	1[illegible]	228	Supplies 5 people and 5 head of stock. Casing: 6-in. to 12 ft.; none below.
M-109	L. A. Wright . . .	Alabama-Pennsylvania Drilling Co.	D	87	6	Єc	568	30	11- -56	J	D	. . . .	4	[illegible]	Supplies 2 people. Water contains an excessive amount of iron.
M-110	[illegible]'Neal Fleming .	. . . . do	D	35.9	6	Єc	563	7.5	11- 2-56	J	D	. . . .	4	1[illegible]2	Supplies 5 people. Casing: 6-in. to [illegible] ft.; none below. Solution cavity 27 to 36 ft. below land surface.
*M-111	Alexandria Methodist Church.	. . . .	Spr	. . . .	. . . .	Єc	558	. . . .	. . . . . .	F	N	62	4	162	Measured flow 1,108 gpm on 7-11-57.
M-112	W. R. Prickett . .	. . . .	D	130	6	Єc	587	30.5	11- 2-56	J	D,S	. . . .	4	180	Supplies 10 people and 25 head of stock. Casing: 6-in. to 27 ft.; none below.
M-113	J. B. Massey . . .	Clyde Hurst . . .	D	64.4	6	Єc	594	35.1	8- 6-56	J	D	. . . .	11	140	Supplies 2 people.
M-114	J. S. Brooks . . .	. . . .	Du	34.7	48	Єc	603	28.5	. . do . .	M	D	62	18	178	Supplies 1 family.
M-11[illegible]	J. R. Sharp	Abernathy Well Drillers.	D	77.5	6	Єc	616	13.7	8- 7-56	J	D	. . .	18	74	Supplies 6 people.
M-116	LeRoy Hefferman	. . . .	Spr	. . . .	. . . .	Mfp	555	. . . .	. . . . . .	F	D	63	4	154	Known as Sulphur Springs. Supplies 1 family. Estimated flow 2 gpm on 10-17-57.
M-117	. . . do	. . . .	Spr	. . . .	. . . .	Mfp	553	. . . .	. . . . . .	F	D,S	62	4	138	Supplies 3 people. Estimated flow 2 gpm on 10-17-57.
[illegible]	Billy Broughton .	. . . .	Spr	. . . .	. . . .	Mf	561	. . . .	. . . . . .	F	D,S	62	4	130	Measured flow 49 gpm on 10-17-57.
M-119	J. R. Burgess . .	. . . .	Spr	. . . .	. . . .	Mf	557	. . . .	. . . . . .	F	D,S	61	4	138	Supplies 1 family and 3 acre lake. Measured flow 18 gpm on 10-15-57.

M-120	J. A. Phillips	. . . .	Spr	. . . .	. . .	Mf (?)	535	. . . .	. . . . .	F	D	62	4	154	Known as Hebron Springs. Measured flow 67 gpm on 10-23-57.
M-121	Herman Hethcock . .	. . . .	Spr	. . .	. . . .	Mf (?)	552	. . . .	. . . . . .	F	D, S	62	4	136	Known as Circle H Spring. Supplies house, lake and stock. Measured flow 22 gpm on 10-23-57.
M-122	Charles W. Prickett	. . . .	Spr	. . . .	. . . .	Єc	554	. . . .	. . . . . .	F	D, S	63	4	140	Measured flow 9 gpm on 10-17-57.
M-123	J. W. Surrett	. . . .	Spr	. . . .	. . . .	Єc	558	. . . .	. . . . . .	F	D	61	4	122	Known as Surrett Spring. Measured flow 13 gpm on 10-17-57.
M-124	E. H. Curbin	. . . .	Spr	. . . .	. . . .	Єc	548	. . . .	. . . . . .	F	N	. . . .	4	54	Reported to have been dug during drought in 1954. Measured flow 4 gpm on 10-17-57.
M-125	L. L. Wheeler . . .	. . . .	Spr	. . . .	. . . .	Єc	543	. . . .	. . . . . .	F	N	60	4	142	Known as Indian Spring. Measured flow 4 gpm on 10-17-57.
M-126	James O'Dell	. . . .	Spr	. . . .	. . . .	Єr	577	. . . .	. . . . . .	F	D	62	4	94	Measured flow 63 gpm on 10-22-57.
M-127	Post Oak Baptist Church.	. . . .	Spr	. . . .	. . . .	Єr	603	. . . .	. . . . . .	F	P	61	4	90	Measured flow 9 gpm on 10-22-57.
M-128	J. D. Stewart, Sr.	. . . .	Spr	. . . .	. . . .	Єc	529	. . . .	. . . . . .	F	D	62	4	140	Known as White Willow Spring. Measured flow 328 gpm on 10-18-57.
M-129	McCullars' Estate	. . . .	Spr	. . . .	. . . .	Mfp	536	. . . .	. . . . . .	F	D, S	62	4	142	Measured flow 58 gpm on 10-18-57.
M-130	L. Z. Shurbett . .	. . . .	Spr	. . . .	. . . .	Єc	526	. . . .	. . . . . .	F	S	62	4	106	Measured flow 440 gpm on 10-22-57.
N- 1	L. Pruitt	Alvin Yancy . . .	D	70	6	Mf	577	18.9	12-11-56	J	D	. . . .	18	246	Supplies 7 people. Water contains iron.
N-	C. L. Martin . . .	C. R. Killian . .	D	130	6	Mf	550	. . . .	. . . . . .	J	D	. . . .	4	216	Supplies 5 people. Water contains iron.
N- 3	Blake Martin . . .	. . . .	D	104	6	Mf	545	. . . .	. . . . . .	J	D	. . . .	4	334	Supplies 4 people. Water contains iron.
N- 4	T. F. Pruitt . . .	. . . .	D	72.9	6	Mf	527	10.7	12-17-56	N	N	. . . .	. . . .	. . . .	
N- 5	George P. Miers .	. . . .	D	100	6	Mf	535	31	10- -55	J	D	. . . .	11	50	Supplies 6 people. Water contains iron.
N- 6	S. W. Martin	. . . .	Du	15.8	36	Mf	534	15.3	12- 5-56	M	D	69	32	44	Supply inadequate for domestic use.
N- 7	Roy L. Elders . . .	. . . .	Du	22.9	36	Mf	582	. . . .	. . . . . .	M	N	. . . .	. . . .	. . . .	Supply inadequate for domestic use during fall months.
N- 8	C. J. Hamilton . .	. . . .	D	58.8	6	Mp (?)	567	11.5	1-30-57	J	D	. . . .	4	142	Supplies 12 people.
N- 9	O. L. Akridge . .	. . . .	Du	. . . .	. . . .	Mf	559	. . . .	. . . . . .	N	N	. . . .	. . . .	. . . .	
N-10	L. M. Phillips . .	. . . .	D	140	6	Mf	520	54.9	1-18-57	J	S	. . . .	4	88	Supplies 4 head of stock. Casing: 6-in. to 22 ft.; none below. Water contains iron.
N-11	5 W Club	. . . .	D	. . . .	6	Mf	560	. . . .	. . . . . .	J	. . .	. . . .	4	148	
N-12	. . . . do	. . . .	D	. . . .	6	Mf	554	41.3	1-18-57	J	. . .	. . . .	4	16	
N-13	Virgil L. Hurst . .	. . . .	D	125	6	Mf	546	. . . .	. . . . . .	J	D, S	. . . .	4	126	Supplies 7 people and 100 head of stock.
N-14	R. A. Simpson . .	. . . .	Du	11.7	36	Mf	544	3.8	1-30-57	M	D	57	11	116	Supplies 4 people. Supply inadequate during dry season.
N-15	W. L. Fuller	. . . .	Du	20.6	36	Mf	552	5.0	. . do . .	J	D	60	18	62	Supplies 7 people. Supply inadequate during dry season.

Table 1. --Records of wells and springs in Calhoun County, Ala. --Continued

Well or spring No.	Owner	Driller	Type	Depth of well (feet)	Diameter of well (inches)	Water-bearing formation	Altitude of land surface (feet)	Water level: Above (+) or below land surface (feet)	Water level: Date of measurement	Method of lift	Use of water	Field determinations: Temperature (°F)	Field determinations: Chloride (ppm)	Field determinations: Hardness as CaCO$_3$ (ppm)	Remarks
N-16	J. J. Henderson . .	. . . .	Du	32.0	36	Mf	581	23.9	1-30-57	M	D	61	11	100	Supplies 3 people. Supply inadequate during dry season.
N-17	M. M. Jones, Jr. .	. . . .	D	67	4	Mf	540	16.3	12- 5-56	J	D, S	. . . .	25	10	Supplies 5 people and 19 head of stock. Water contains iron.
N-18	J. K. Martin	. . . .	Du	21.5	24	Mf	546	20.7	12-17-56	M	D	61	4	190	Supplies 5 people. Supply inadequate during dry season.
N-19	. . . . do	. . . .	D	113.2	6	Mf	562	36.2	12- 5-56	N	N	. . . .	. . . .	. . . .	
N-20	W. D. Ballanger . .	Carl Pace	D	78.0	6	Mf	515	16.2	12-17-56	M	D	61	18	204	Supplies 6 people. Water contains iron.
N-21	J. Martin	. . . .	Du	35.6	24	Mfp (?)	567	35.3	12- 4-56	M	D	61	11	7[illegible]	Supplies 6 people. Supply inadequate during fall months.
N-22	Thomas J. Jones . .	. . . .	D	100	6	Mf	533	44.6	12-17-56	M	D	62	4	294	Supplies 4 people.
N-23	H. R. Bridges	Abernathy Well Drillers.	D	75	6	Mf	552	22.6	12- 5-56	J	D	. . . .	11	78	Supplies 2 people. Water contains iron and is equipped with iron filter.
N-24	Ray Calhoun	. . . .	Du	2[illegible].2	36	Mf	549	21.2	. . do . .	M	D	62	32	34	Supplies 9 people.
N-25	Edward Cochran . .	. . . .	D	67	6	Mf	543	. . . .	. . . . . .	J	D, S	. . . .	18	194	Supplies 8 people and 8 head of stock.
N-26	Charles Cobb	. . . .	Du	21.2	36	Mp	521	12.2	1-18-57	M	N	60	53	92	Supply inadequate during fall months.
*N-27	R. L. Winn	. . . .	Spr	. . . .	. . . .	Ocy	511	. . . .	. . . . . .	F	D	64	4	150	Measured flow 75 gpm on 7-11-57. Planned as source for municipal supply for Ohatchee.
N-28	Ann Walker	Carl Pace	D	73	6	Mf	518	4.4	1-10-57	M	D	61	4	172	Supplies 3 people. Casing: 6-in. to 24 ft. Water contains iron.
N-29	C. L. Lloyd	. . . .	D	115	6	Mf	542	17.9	1-16-57	J	D	. . . .	4	2[illegible]	Supplies 13 people. Casing: 6-in. to 22 ft.; none below. Well pumped at 12 gpm.
N-30	Ray B. Harcrow . .	. . . .	Du	22.8	24	Mf	530	21.3	12- 5-56	M	D	59	11	122	Supplies 5 people.
N-31	Jeff Bowden	. . . .	D	100	6	Mf	527	24.6	12- 3-56	J	D, S	. . . .	32	362	Supplies 3 people and 20 head of stock.
N-32	L. C. Winn	. . . .	D	200	6	Mf	527	40	1956	J	D	. . . .	11	190	Supplies 9 people.
N-33	O. W. Haynes . . .	. . . .	Du	26.7	36	Mf	502	23.1	12- 3-56	M	D	62	46	17[illegible]	Supplies 4 people. Water contains iron.
N-34	D. V. Bryant . . .	. . . .	Du	44.1	30	Mf	558	35.1	11-30-56	M	D	62	25	12[illegible]	Supplies 3 people.
N-35	Freeman Smith . .	. . . .	D	107	6	Cb (?)	606	61.8	1[illegible]-23-56	J	D	. . . .	11	21[illegible]	Supplies 4 people.

N-36	Houston Smith	Carl Pace	D	118	6	. . .	620	70	1942	J	D	. . . .	11	188	Supplies 3 people. Casing: 6-in. to 50 ft.; none below.
N-37	. . . . do	Abernathy Well Drillers.	D	72	6	. . .	607	55.0	11-26-56	J	N	. . . .	4	250	Casing: 6-in. to 35 ft.; none below.
N-38	Charles A. Johnston	C. R. Killian . .	D	65.8	6	Mfp	563	28.3	. . do . .	M	D	62	18	152	Supplies 3 people and store. Casing: 6-in. to 70 ft.; none below. Driller's log in files of U. S. Geol. Survey.
N-39	Taylor Whisenant . .	. . . .	Du	29.6	36	Mf	559	29.0	11-30-56	M	D	60	53	118	Supplies 2 people.
N-40	J. W. Smith	. . . .	D	. . . .	6	Mf	568	28.5	11-29-56	J	D	. . . .	11	286	Supplies 1 family.
N-41	W. H. Campbell . .	. . . .	D	. . . .	6	Mf	537	33.9	. . do . .	J	D, S	. . . .	. . . .	. . . .	Supplies 2 people and 13,000 chickens. Water contains iron.
N-42	B. T. Williams . .	C. R. Killian . .	D	63	6	. . .	520	43.2	12- 4-56	J	D	. . . .	11	156	Supplies 11 people. Casing: 6-in. to 48 ft.; none below.
N-43	Calhoun Co. Board of Education, Ohatchee School.	. . . .	D	. . . .	6	Mf	515	. . . .	. . . . . .	J	P	. . . .	18	320	
N-44	Calhoun Co. Board of Education.	Carl Pace	D	118	6	Mf	517	. . . .	. . . . . .	J	P	. . . .	4	308	Supplies school. Water contains iron.
N-45	C. R. Propst	. . . . do	D	80	6	Mf	515	. . . .	. . . . . .	J	D	. . . .	4	272	Supplies 8 people. Water contains iron.
N-46	A. P. Parton . . .	. . . . do	D	. . . .	6	Mf	511	. . . .	. . . . . .	J	D	. . . .	4	. . . .	Do.
N-47	W. C. Usrey . . .	. . . .	D	95	6	Mf	501	. . . .	. . . . . .	J	P	. . . .	11	. . . .	Supplies service station. Water contains iron and has objectionable taste and odor.
N-48	Roy C. Owens . . .	. . . .	D	. . . .	. . . .	Mf	518	. . . .	. . . . . .	J	D	. . . .	18	504	Supplies 4 families.
N-49	Ivy Clements . . .	. . . .	Du	25.6	40	Mf	507	4.5	1-10-57	M	D	. . . . .	4	134	Supplies 3 people.
N-50	Roy C. Owens . .	. . . .	Du	18.5	36	Mf	504	16.9	. . do . .	J	D	. . . .	11	610	Supplies 6 people.
N-51	Julian Clements .	. . . .	D	19.9	36	Mf	501	13.7	. . do . .	J	D	. . . .	4	324	Supplies 4 people.
N-52	Ohatchee Methodist Church.	. . . .	D	. . . .	6	Mf	534	. . . .	. . . . . .	J	D	. . . .	4	166	Supplies 3 people. Water contains iron.
N-53	Tom Sims	Carl Pace	D	141	6	Mf	544	23.6	1- 9-57	J	D	. . . .	4	310	Supplies 4 people. Casing: 6-in. to 31 ft.; none below.
N-54	John Ellis	. . . . do	D	. . . .	6	Mf	544	. . . .	. . . . . .	J	D	. . . .	4	280	Supplies 2 people.
N-55	L. C. Johnston . .	. . . .	D	. . . .	6	Mf	539	. . . .	. . . . . .	J	D	. . . .	11	184	
N-56	Charles Jennings .	. . . .	D	. . . .	6	Mf	542	. . . .	. . . . . .	J	D	. . . .	11	240	Supplies 6 people.
N-57	M. L. Lott, Sr. .	C. R. Killian . .	D	86	6	Mf	537	24	10- -52	J	D	. . . .	4	232	Supplies 4 people. Casing: 6-in. to 22 ft.; none below.
N-58	Maude Thomason .	. . . .	D	60	6	Mf	528	13	1-16-57	C	D	. . . .	25	478	Supplies 2 people.
N-59	Grady Poole	Alvin Yancy . . .	D	78.3	6	Mf	551	33.1	. . do . .	J	D	. . . .	11	218	Supplies 5 people. Water contains iron.
N-60	--Jones	. . . .	Spr	. . . .	. . . .	Mf	499	. . . .	. . . . . .	F	D	64	4	150	Measured flow 122 gpm on 7-11-57.

Table 1. --Records of wells and springs in Calhoun County, Ala. --Continued

Well or spring No.	Owner	Driller	Type	Depth of well (feet)	Diameter of well (inches)	Water-bearing formation	Altitude of land surface (feet)	Water level		Method of lift	Use of water	Field determinations			Remarks
								Above (+) or below land surface (feet)	Date of measurement			Temperature (°F)	Chloride (ppm)	Hardness as $CaCO_3$ (ppm)	
N-61	C. W. Dean	C. W. Dean	D	97	6	Mf	498	20	11- -56	J	D	. . . .	4	98	Supplies 3 people. Casing: 6-in. to 32 ft.; none below. Water contains iron.
N-62	Addie Hanvey	Carl Pace	D	84	6	Mf	524	27.7	1-16-57	J	D	. . . .	4	192	Supplies 4 people. Water contains iron.
N-63	Roy Savo	. . . .	D	89	6	Mf	552	30.5	11-28-56	J	D	. . . .	. . . .	. . . .	Supplies 1 family.
N-64	H. B. Nunnelly . .	Abernathy Well Drillers.	D	109	6	Mf	530	27.6	. . do . .	J	D	. . . .	11	266	Supplies 4 people. Well drilled within dug well 28 ft. deep.
N-65	Hubert Howard . .	. . . . do	D	120	6	Mf	536	. . . .	. . . . . .	J	D	. . . .	25	202	Supplies 4 people.
N-66	Fred Bryant	. . . .	Du	. . . .	30	Mf	562	23.5	11-28-56	J	D	. . . .	25	210	Supplies 10 people.
N-67	R. L. Stillwell . .	. . . .	D	. . . .	6	Mf	540	38.9	11-29-56	J	D	. . . .	18	388	Supplies 7 people.
-68	Ralph H. Poe . . .	C. R. Killian . .	D	122	6	Mf	561	50.1	11-28-56	J	D	. . . .	4	134	Supplies 3 people.
N-69	Ansel Conner . . .	. . . .	Du	41.4	36	Mf	546	39.1	11-29-56	M	D	. . . .	. . . .	. . . .	Supplies 5 people.
N-70	Emmett Dover . .	Abernathy Well Drillers.	D	75	6	Mf	551	. . . .	. . . . . .	J	D	. . . .	. . . .	. . . .	Supplies 6 people. Casing: 6-in. to 59 ft.; none below.
N-71	James R. Heath .	Carl Pace	D	94.5	6	Mf	575	30	1952	J	D	. . . .	4	140	Supplies 6 people. Casing: 6-in. to 80 ft.; none below.
N-72	R. E. Nance	Abernathy Well Drillers.	D	102	6	Ob (?)	570	1.3	2- 6-57	J	D	. . . .	4	204	Supplies 9 people. Casing: 6-in. to 42 ft.; none below.
N-73	T. O. Cocks . . .	. . . .	Spr	. . . .	. . . .	Mfp	548	. . . .	. . . . . .	F	. . .	61	4	168	Known as Cochran Springs. Measured flow 265 gpm on 10-23-57.
N-74	5 W Club	. . . .	Spr	. . . .	. . . .	Mfp	546	. . . .	. . . . . .	F	P	61	4	144	Measured flow 76 gpm on 10-23-57. Supplies 5 W Club.
N-75	Virgil Hurst	. . . .	Spr	. . . .	. . . .	Oc	638	. . . .	. . . . . .	F	D	61	. . . .	94	Measured flow 18 gpm on 10-23-57.
N-76	Jim Martin	. . . .	Spr	. . . .	. . . .	Mfp	506	. . . .	. . . . . .	F	D	61	. . . .	124	Measured flow 22 gpm on 10-23-57.
P- 1	Robert Adamson . .	. . . .	Du	35.5	18	Mf	541	34.2	1- 3-57	M	D	61	. . . .	. . . .	Supplies 3 people. Supply inadequate during fall months.
P- 2	W. T. Haynes	. . . .	D	120	6	Mf	536	20	7- -53	C	D, S	. . . .	4	24	Supplies 2 people and 40 head of stock. Casing: 6-in. to 60 ft.; none below.
P- 3	G. L. Clark	Carl Pace	D	120	6	Mf	525	15	4- -42	J	D	. . . .	11	52	Supplies 4 people. Casing: 6-in. to 120 ft.; none below. Water contains iron.

P- 4	W. H. Clark	Carl Pace	D	127	6	Mf	514	. . . .	. . . .	J	S	. . .	4	48	Supplies 60 head of stock. Water contains iron.
P- 5	J. R. Clark	. . . . do	D	180	6	Mf	517	25	1955	J	D, S	.	4	60	Supplies 14 people and 18 head of stock.
P- 6	M. E. Clark	. . . . do	D	150	6	Mf	514	. . . .	. . . . . .	J	D	. . . .	4	30	Supplies 10 people.
P- 7	C. T. Haynes	. . . .	Du	25.9	30	Mf	577	20.4	2-15-57	M	D	60	4	50	Supplies 5 people. Well was dry in fall of 1956.
P- 8	Sallie Burford	. . . .	Du	15.6	36	Mf	509	6.7	. . do . .	M	D	59	4	16	Supplies 1 person.
P- 9	W. A. Poe	. . . .	Du	21.8	36	Mf	497	10.2	2-13-57	C	D	. . . .	4	172	Supplies 5 people. Water contains iron.
P-10	L. P. Mitchell . . .	. . . .	Du	24.1	36	Mf	579	16.2	2-15-57	M	D	60	4	94	Supplies 4 people.
P-11	C. T. Haynes	Carl Pace	D	130	6	Mf	573	20	1956	J	D, S	. . . .	4	118	Supplies 5 people and 35 head of stock. Casing: 6-in. to 110 ft.; none below.
P-12	H. D. Calhoun . . .	. . . .	Du	25.2	42	Mf	561	14.6	2-15-57	M	D	62	4	42	Supplies 6 people. Supply inadequate during fall months.
P-13	W. R. Owens	. . . .	D	115	6	Mf	519	6.9	. . do . .	J	D, S	. . . .	11	140	Supplies 5 people and 30 head of stock. Water contains iron.
P-14	S. S. Cobb	--Shaders	D	302	5	Mf	545	6.6	2-12-57	N	N	. . . .	. . . .	. . . .	Casing: 5-in. to 17 ft.; none below.
P-15	Roy Henner	. . . .	Du	17.9	42	Mf	548	11.4	2-15-57	M	D	58	4	110	Supplies 4 people. Supply inadequate during fall months.
P-16	O. K. Gaither . . .	F. O. Pugh	D	131	6	Ob	530	15.0	. . do . .	J	D	. . . .	4	120	Supplies 4 people. Water contains iron.
P-17	Robert Coplin	. . . . do	D	151	6	Mf	528	. . . .	. . . . . .	J	D	. . . .	4	156	Supplies 5 people.
P-18	Odis Chumley	. . . .	Du	24.1	24	Mf	506	12.5	2-15-57	J	D	. . . .	4	98	Supplies 2 people.
P-19	E. F. Poe	. . . .	Du	45.3	36	Mf	541	26.3	2-13-57	J	D	. . . .	4	38	Supplies 4 people.
P-20	W. H. Dickerson .	. . . .	Du	23.6	36	Mf	511	7.8	. . do . .	M	D	58	4	152	Supplies 2 people. Supply inadequate during fall months.
P-21	J. T. Crow	. . . .	D	88.7	5	Mf	569	36.9	. . do . .	M	D	62	11	60	Supplies 4 people. Water contains iron.
P-22	L. C. Crow	F. O. Pugh	D	75	6	Mf	536	35	12- -56	J	D	. . . .	4	212	Supplies 6 people. Water contains iron.
P-23	B. F. Pruitt	. . . .	Du	15.8	40	Mf	526	4.2	2-13-57	M	D	58	4	200	
P-24	L. J. Nance	. . . .	Du	17.8	36	Mf	533	11.3	2-15-57	J	D	. . . .	32	356	Supplies 3 people. Well went dry during fall of 1956.
P-25	H. C. Davis	. . . .	Du	19.2	30	Mf	575	4.5	2-12-57	J	D	. . . .	11	42	Supplies 4 people.
P-26	D. D. Poland . . .	. . . .	Du	18.4	30	Mf	546	6.0	. . do . .	J	D	. . . .	32	256	Supplies 3 people. Supply inadequate during fall months.
P-27	Lewis L. Hightower	. . . .	Du	14.0	36	Mf	545	6.3	. . do . .	M	N	58	18	212	
Q- 1	Frank W. Campbell	. . . .	D	. . . .	6	Mfp	665	. . . .	. . . . . .	J	D	. . . .	4	210	Supplies 9 people. Water is muddy after rain.
Q- 2	F. C. Kloepfer . . .	Carl Pace	D	76	6	Mf	558	14.0	1- 3-57	J	D	. . . .	4	338	Supplies 5 people. Water contains iron.
Q- 3	R. V. Tucker . . .	. . . . do	D	211	6	Mf	542	21.6	. . do . .	J	D	. . . .	4	134	Supplies 5 people. Casing: 6-in. to 11 ft.; none below. Driller's log in files of U. S. Geol. Survey.

Table 1.--Records of wells and springs in Calhoun County, Ala.--Continued

Well or spring No.	Owner	Driller	Type	Depth of well (feet)	Diameter of well (inches)	Water-bearing formation	Altitude of land surface (feet)	Water level		Method of lift	Use of water	Field determinations			Remarks
								Above (+) or below land surface (feet)	Date of measurement			Temperature (°F)	Chloride (ppm)	Hardness as $CaCO_3$ (ppm)	
Q- 4	R. V. Tucker	Carl Pace	D	90	6	Mf	538	23.2	1- 3-57	N	N	. . . .	11	. . . .	Casing: 6-in. to 10 ft.; none below. Driller's log in files of U. S. Geol. Survey.
Q- 5	H. C. Baswell, Sr. .	. . . .	Du	19.7	18	Mf	542	4.9	2- 6-57	M	D	59	4	58	Supplies 2 people.
Q- 6	J. D. Robertson . . .	. . . .	Du	38.4	36	Mf	535	33.9	1- 1-57	M	D	62	4	. . . .	Supplies 2 people. Water contains iron.
Q- 7	J. B. Maquirk	. . . .	D	26.8	6	Mf	500	18.6	1- 7-57	N	N	. . . .	. . . .	. . . .	
Q- 8	C. T. Thompson . .	. . . .	D	. . . .	6	Mf	517	25.5	. . do . .	J	D	. . . .	4	498	Supplies 5 people.
Q- 9	M. L. Weathangton	Carl Pace	D	100	6	Mf	541	30	8- -55	J	D, S	. . . .	4	26	Supplies 7 people and 50 head of stock.
Q-10	A. D. Poss	. . . .	Du	16.4	36	Mf	525	.7	2- 4-57	M	D	59	4	106	Supplies 2 people. Water contains iron.
Q-11	D. Gilmer	F. O. Pugh	D	83	6	Mf	511	5.2	. . do . .	J	D	. . . .	4	170	Supplies 8 people. Casing: 6-in. to 15 ft.; none below. Water contains iron.
Q-12	is Daniels	. . . .	Du	19.8	30	Mf	538	15.3	6-17-57	J	D	. . . .	18	72	Supplies 3 people.
Q-13	W. K. Parton . . .	Carl Pace	D	69	6	Mfp	554	. . . .	. . . . . .	J	D	. . . .	4	204	Supplies 5 people.
Q-14	George Caldwell . .	. . . .	D	65	6	Mf	525	. . . .	. . . . . .	. . .	D	. . . .	4	144	Supplies 2 people.
Q-15	J. B. Maquirk . . .	. . . .	Spr	. . . .	. . .	Mf	507	. . . .	. . . . . .	F	D	65	11	130	Measured flow 43 gpm on 7-11-53.
Q-16	. . . . do	. . . .	Du	19.3	24	Mf	561	3.98	2- 7-57	C	D	. . . .	18	86	Supplies 2 people. Water contains iron.
Q-17	A. H. Cooper . . .	. . . .	Du	21.3	30	Mf	553	6.3	2- 6-57	M	D	60	4	56	Supplies 8 people. Water contains iron.
Q-18	O. B. Boozer . . .	. . . .	Du	47.5	36	Mf	546	41.1	2- 1-57	J	D	. . . .	11	194	Supplies 4 people.
Q-19	J. B. Maquirk . .	F. O. Pugh	D	42.6	6	Mf	518	9.9	2- 8-57	M	D	62	4	214	Supplies 6 people. Casing: 6-in. to 10 ft.; none below.
Q-20	W. H. Shuler	. . . .	D	80	6	Mf	510	14.8	. . do . .	J	D, S	. . . .	4	314	Supplies 4 people and 30 head of stock. Casing: 6-in. to 17 ft.; none below. Driller's log in files of U. S. Geol. Survey.
Q-21	L. D. Shuler	C. R. Killian . .	D	750	6	Mf	567	60.7	2- 1-57	J	D	. . . .	39	598	Supplies 7 people.
Q-22	E. Ward	. . . .	Du	25.9	30	Oc (?)	551	2.2	2- 8-57	M	D	59	4	62	Supplies 3 people. Supply inadequate during fall months.
Q-23	John R. Clark . . .	Clyde Hurst . . .	D	144	6	Oc (?)	553	15	9- -56	J	D	. . . .	4	130	Supplies 3 people. Casing: 6-in. to 30 ft.; none below. Bedrock at 22 ft. below land surface.

Q-24	Otto Hill	. . . .	Du	22.1	36	Mfp	562	7.6	2- 3-57	M	J	60	11	224	Supplies 8 people.
Q-25	H. M. Jones	. . . .	Spr	. . . .	. . . .	ЄO	543	. . . .	. . . . . .	F	D	61.5	. . . .	. . . .	Measured flow 112 gpm on 10-14-57.
Q-26	A. H. Howard	. . . .	Du	30.8	36	Mf	581	6.3	2-12-57	J	S	. . . .	11	46	Supplies 14 head of stock. Supply inadequate during dry season.
Q-27	--Howard	. . . .	Spr	. . . .	. . . .	Mfp	520	. . . .	8- 7-57	F	S	61	4	182	Measured flow 7 gpm on 8-7-57.
Q-28	Ralph Allen	. . . .	Du	27.2	36	Mf	585	23.1	2-12-57	M	D	64	11	262	Supplies 5 people. Supply inadequate during fall months. Water contains iron.
Q-29	Harry Alldredge . .	. . . .	Du	30	. . . .	ЄO (?)	609	. . . .	. . . . . .	. . .	. . .	. . . .	. . . .	. . . .	
Q-30	Eden Bond Estate .	. . . .	Spr	. . . .	. . . .	Mfp	522	. . . .	. . . . . .	F	N	61	. . . .	146	Measured flow 31 gpm on 10-23-57.
Q-31	U. S. Government .	. . . .	Spr	. . . .	. . . .	ЄO	582	. . . .	. . . . . .	F	S	. . . .	. . . .	. . . .	
Q-32	. . . . do	. . . .	Spr	. . . .	. . . .	ЄO	568	. . . .	. . . . . .	F	P	63	. . . .	138	Measured flow 274 gpm on 10-17-57.
R- 1	E. H. Kirby	. . . .	Du	28.6	36	ЄO (?)	687	22.5	8- 9-56	M	D	62	53	34	Supplies 5 people.
R- 2	J. C. Hall	Abernathy Well Drillers.	D	118.5	6	Єr	696	56	1954	J	D	. . . .	18	140	Supplies 9 people. Casing: 6-in. to 108 ft.; none below.
R- 3	Grace Ford	. . . . do	D	193.6	6	Єc	672	19.4	8- 6-56	J	D	. . . .	11	168	Supplies 4 families.
R- 4	Homer Cupp	. . . . do	D	122.9	6	Єr (?)	685	65.9	. . do . .	J	D	. . . .	18	160	Supplies 4 people. Casing: 6-in. to 51 ft.; none below.
R- 5	Thomas C. Patterson	. . . .	D	57	6	Єc	634	39.3	. . do . .	J	D	. . . .	11	186	Supplies 5 people. Supply inadequate during dry season.
R- 6	Laura Pelham	Carl Pace	D	80.3	5.5	. . .	677	63.4	10-22-56	M	D	62	4	156	Supplies 7 people.
R- 7	Grady Wallace . . .	C. R. Killian . .	D	240	6	. . .	712	109.2	11- 1-56	M	D	63	4	238	Supplies 5 people.
R- 8	Herman Hammonds	Ben Owens	D	72.5	6	Єc	653	52.3	. . do . .	J	D	. . . .	4	192	Supplies 7 people.
R- 9	D. P. Owens	Carl Pace	D	98	6	Єc	656	57.1	. . do . .	J	D	. . . .	4	226	Supplies 4 people.
R-10	W. C. Swafford . . .	Clyde Hurst . . .	D	69.5	6	Єc	647	36.8	10-22-56	J	D	. . . .	4	162	Supplies 3 people. Casing: 6-in. to 39 ft.; none below. Bedrock at 32 ft. below land surface.
R-11	R. P. Reynolds . . .	Abernathy Well Drillers.	D	78	6	Єc	642	39.2	11- 1-56	J	D,S	. . . .	4	152	Supplies 5 people and 3 head of stock. Casing: 6-in. to 41 ft.; none below. Driller's log in files of U. S. Geol. Survey.
R-12	Charles Johnson . .	Grady Campbell .	D	87.5	6	Єc	658	53.7	. . do . .	J	D	. . . .	4	144	Supplies 3 people.
R-13	Jack Boone	Carl Pace	D	120.1	6	Єc	673	78.0	. . do . .	J	D	. . . .	4	250	Supplies 20 people. Casing: 6-in. to 30 ft.; none below.
R-14	. . . . do	Ben Owens	D	112	6	Єc	664	60	. . . . . .	J	N	. . . .	4	252	
R-15	N. L. Owens	Carl Pace	D	112	6	Єc	601	38.8	11- 1-56	J	D	. . . .	4	236	Supplies 17 families, 1 cafe, 2 service stations, and 1 tourist court.
R-16	W. H. Keown	C. R. Killian . .	D	117	6	Єc	600	39.1	. . do . .	J	D	. . . .	4	190	Supplies 4 people. Casing: 6-in. to 63 ft. Driller's log in files of U. S. Geol. Survey.
R-17	Gaston Owen	Carl Pace	D	92.5	5.5	. . .	679	77.0	. . do . .	J	D	. . . .	4	240	Supplies 8 people.

Table 1.--Records of wells and springs in Calhoun County, Ala.--Continued

Well or spring No.	Owner	Driller	Type	Depth of well (feet)	Diameter of well (inches)	Water-bearing formation	Altitude of land surface (feet)	Water level		Method of lift	Use of water	Field determinations			Remarks
								Above (+) or below land surface (feet)	Date of measurement			Temperature (°F)	Chloride (ppm)	Hardness as $CaCO_3$ (ppm)	
R-18	Mt. Zion Baptist Church.	....	D	100	6	. . .	582	11.2	11-19-56	J	D	....	11	218	Supplies 4 people and a church. Water is muddy following rain.
R-19	D. H. Rogers	....	D	17.5	6	Єc	563	8.7	..do..	M	D	66	163	466	Supplies 4 people.
R-20	Joe Shaffer	....	D	120	6	ЄO	584	....	......	C	D	....	11	96	Do.
R-21	Lois Medders	F. O. Pugh ...	D	93	6	. . .	602	77.3	11-19-56	J	D	....	4	274	Supplies 6 people.
R-22	C. D. Medders ...	Carl Pace	D	133	6	. . .	616	83.7	..do..	J	D	....	4	213	Supplies 11 people.
R-23	H. L. Love	....do......	D	103	6	Єc	564	46.9	..do..	J	D, S	....	11	238	Supplies 9 people and 15 head of stock. Casing: 6-in. to 32 ft.; none below. Bedrock at 28 ft. below land surface.
R-24	C. M. Mills	....	Du	26.8	24	Єc	612	22.2	10-22-56	J	D, S	....	4	182	Supplies 8 people and 7 head of stock.
R-25	S. McHurd	F. O. Pugh	D	114	6	Єc	612	18.6	..do..	J	D	....	4	124	Supplies 20 people.
R-26	James Fuller and L. W. Martin.	Alabama-Pennsylvania Drilling Co	D	90	6	Єc	631	28.8	..do..	J	. . .	....	4	166	Supplies service station.
R-27	Joe McClellan ...	Carl Pace	D	105	6	Єc	653	....	......	J	D, S	....	11	154	Supplies 12 people and 120 head of stock.
R-28	C. J. Thompson .	Abernathy Well Drillers.	D	154.5	6	Єc	632	51.9	7-18-56	J	D	....	4	154	Supplies 3 people. Casing: 6-in. to 40 ft.; none below.
R-29	J. L. Thompson .	Carl Pace	D	100	6	Єc	664	40	..do..	C	D, S	....	4	152	Supplies 3 people and 30 head of stock.
R-30	R. B. Cates	C. R. Killian ..	D	100	6	ЄO	[illegible]	....	......	J	D, S	....	4	134	Supplies 4 people and 1 head of stock. Casing: 6-in. to 100 ft.; none below.
R-31	W. J. and J. W. Aderholt.	....	Du	30.0	36	ЄO	635	28.7	10-22-56	M	D	....	....	....	Supplies 6 people.
R-32	S. F. Brown ...	Abernathy Well Drillers.	D	40	6	ЄO	612	16.3	10-23-56	J	D	....	4	136	Supplies 3 people. Water became muddy when well R-35 was drilled.
R-33	S. A. Patterson .	Carl Pace	D	33.0	6	ЄO	614	15	..do..	J	D	....	4	133	Supplies 3 people, 1 store, and a garage.
R-34	Emmett Mays ...	....	Du	22.2	24	ЄO	612	17.8	10-22-56	M	D	64	4	146	Supplies 15 people.
R-35	Leatherwood Church.	Abernathy Well Drillers.	D	30	6	ЄO	620	30	10-23-56	J	D	....	11	36	Supplies 1 family and church.
R-36	C. B. Winchester	F. O. Pugh	D	111.2	6	ЄO	633	42.0	7-25-56	J	D	....	4	152	Supplies 4 people. Casing: 6-in. to 39 ft.; none below.

R-37	Pess Adams	Carl Pace	D	125	6	ЄO	689	80.0	7-19-56	J	D,S	. . . .	25	130	Supplies 6 people and 52 head of stock.
R-38	Hugh Cook	. . . .	D	50.2	6	ЄO	650	27.9	. . do . .	J	D	. . . .	39	206	Supplies 4 people.
R-39	W. M. Greenwood .	Abernathy Well Drillers.	D	169	6	ЄO	649	38.2	10-23-56	J	D,S	. . . .	4	180	Supplies 6 people and 3 head of stock.
R-40	L. W. Greenwood .	F. O. Pugh . . .	D	87.5	5	ЄO	685	41.0	7-25-56	J	D	. . . .	11	140	Supplies 6 people.
R-41	T. G. Gaston	Clyde Hurst . .	D	104	6	ЄO	684	60.2	10-23-56	J	D	. . . .	4	168	Supplies 8 people. Casing: 6-in. to 41 ft.; none below.
R-42	T. H. Pettus . . .	Abernathy Well Drillers.	D	104	6	ЄO	731	86	10- -56	J	D,S	. . . .	11	120	Supplies 5 people and 2 head of stock. Supply inadequate.
R-43	L. M. Williams . .	Emmett Green . .	D	200	6	ЄO	760	96.6	10-23-56	J	D	. . . .	4	150	Supplies 4 people. Supply inadequate.
R-44	W. D. Haynes . . .	. . . .	Spr	. . . .	. . . .	ЄO	574	. . . .	10-22-57	F	D	61	4	194	Measured flow 45 gpm on 10-22-57.
R-45	C. L. Gurley . . .	. . . .	Spr	. . . .	. . . .	Єc	547	. . . .	. . do . .	F	D,S	62	4	180	Measured flow 76 gpm on 10-22-57.
R-46	Leander H. Robertson.	. . . .	Spr	. . . .	. . . .	Єc	620	. . . .	. . do . .	F	N	62	4	146	Measured flow 126 gpm on 10-22-57.
R-47	. . . . do	. . . .	Spr	. . . .	. . . .	Єc	617	. . . .	10-16-57	F	N	62	4	156	Measured flow 220 gpm on 10-16-57.
R-48	U. S. Government .	. . . .	Spr	. . . .	. . . .	Єc	585	. . . .	10-17-57	F	P	. . . .	. . . .	. . . .	Supplies military personnel on maneuvers. Measured flow 175 gpm on 10-17-57.
S- 1	H. L. Huddleston . .	. . . .	D	110	6	Mf	805	85.4	8-10-56	J	D	. . . .	11	122	Supplies 7 people.
S- 2	A. W. Collins	Carl Pace	D	68.3	6	Mf	746	27.9	. . do . .	J	D	. . . .	11	76	Supplies 3 families.
S- 3	Gorden Tolbert . . .	. . . .	Du	68.4	30	Mf	765	64.6	8-13-56	J	D	. . . .	4	90	Supplies 5 people.
S- 4	Huey Dothard	. . . .	Du	44.5	36	. . .	689	33.1	. . do . .	J	D	. . . .	18	82	Supplies 2 people.
S- 5	Z. E. Lowery	Alabama-Pennsylvania Drilling Co.	D	278	6	Єr (?)	731	72.5	7-18-56	J	D	. . . .	11	152	Supplies 7 people.
S- 6	Town of Weaver . . .	H. W. Peerson .	D	300	8	Єc	778	. . . .	. . . . . .	T	P	. . . .	5	150	
S- 7	. . . . do	Carl Pace	D	. . . .	8	Єc	722	. . . .	. . . . . .	N	N	. . . .	. . . .	. . . .	
S- 8	. . . . do	. . . . do	D	409	8	Єc	719	45.3	7-17-56	T	P	. . . .	. . . .	. . . .	Reported drawdown of 16 ft. after pumping 300 gpm for 16 hours on 7-17-56.
S- 9	H. F. Fink	. . . .	D	. . . .	6	Єc	651	. . . .	. . . . . .	J	D	. . . .	4	182	Supplies 4 people.
S-10	. . . . do	. . . .	D	73.9	6	Єc	647	2.2	7-18-56	C	D	66	4	132	Supplies 8 people.
S-11	S. M. Caudle	. . . .	Spr	. . . .	. . . .	Єc	661	. . . .	. . . . . .	F	D,S	64	18	150	Measured flow 607 gpm on 7-25-57.
S-12	Thomas L. McMinn	Carl Pace	D	95	6	Єr	711	45	9- -54	J	D	. . . .	4	142	Supplies 23 people.
S-13	J. F. Williamson .	. . . . do	D	39.0	6	Єc	669	14.7	7-25-56	J	D	. . . .	18	206	Supplies 2 people.
S-14	A. L. Ambrose . . .	Abernathy Well Drillers.	D	204	6	Єc	753	54	7-23-56	J	D	. . . .	4	250	Supplies 2 people. Casing: 6-in. to 48 ft.; none below.
S-15	Nalda Jenks	. . . . do	D	134.7	6	ЄO	724	71.8	7-19-56	J	D	. . . .	4	26	Supplies 3 people.
S-16	Howard Adams	Charles Austin . .	D	101	6	ЄO	707	. . . .	. . . . . .	J	D,S	. . . .	11	114	Supplies 9 people and 7 head of stock.

Table 1. --Records of wells and springs in Calhoun County, Ala. --Continued

Well or spring No.	Owner	Driller	Type	Depth of well (feet)	Diameter of well (inches)	Water-bearing formation	Altitude of land surface (feet)	Water level		Method of lift	Use of water	Field determinations			Remarks
								Above (+) or below land surface (feet)	Date of measurement			Temperature (°F)	Chloride (ppm)	Hardness as $CaCO_3$ (ppm)	
S-17	Alabama Pipe Co. Water Pipe Div.	Carl Pace	D	437	10	Єc, Єr	754	140.0	10- 3-56	T	Ind	. . . .	4	116	Reported drawdown of 20 ft. after pumping 500 gpm for 16 hours on 1-27-55.
S-18	H. A. Harrelson . .	. . . .	Spr	. . . .	. . . .	Єc	641	. . . .	. . . . . .	F	D	65	4	200	Supplies 1 family and fish pond. Measured flow 13 gpm on 10-16-57.
S-19	H. F. Fink	. . . .	Spr	. . .	. . . .	ЄO	645	. . . .	10-16-57	F	S	. . . .	. . . .	. . .	Supplies fishing lake. Measured flow 126 gpm on 10-16-57.
S-20	U. S. Government .	. . . .	Spr	. . . .	. . . .	Єw	910	. . . .	. . do . .	F	N	. . . .	. . . .	14	Known as Reeves-T[illegible] spring. Measured flow 58 gpm on 10-16-57.
S-21	. . . . do	. . . .	Spr	. . . .	. . . .	Єc	715	. . . .	. . . . . .	F	R	. . . .	. . . .	. . . .	Known as Training Lake spring, used for boating and fishing. Measured flow 1,505 gpm on 11-27-57.
T- 1	Floyd Titus	. . . .	Du	13.4	36	. .	728	10.5	2-27-57	M	D	55	25	96	Supplies 4 people. Well dug in fault zone.
T- 2	Emmett Hall	F. O. Pugh	D	168	6	Єs (?)	784	80.3	. . do . .	J	D	. . . .	4	32	Supplies 5 people. Water contains iron.
T- 3	F. Harper	. . . .	Du	18.8	. . . .	Єs (?)	696	10.8	9-18-56	M	D	61	60	86	
T- 4	White Plains Baptist Church.	. . . .	Du	42	36	Єr (?)	739	28.0	8-10-56	J	. . .	. . . .	. . . .	. . . .	
T- 5	White Plains	. . . .	D	363	6	Єr	732	. . . .	. . . . . .	J	. . .	. . . .	18	140	
T- 6	White Plains High School.	Carl Pace	D	170	8	Єr	726	49.5	8-10-56	J	P	. . . .	. . . .	. . . .	
T- 7	Etta Reid	Charles Austin .	D	56.7	6	Єr	726	28.2	2-21-57	M	D	63.5	18	46	Supplies 1 person. Water contains iron.
T- 8	D. H. Batson . . .	. . . . do	D	43	6	Єr	718	14.8	. . do . .	J	D, S	. . . .	11	106	Supplies 4 people and 500 chickens. Casing: 6-in. to 43 ft.; none below. Driller's log in files of U. S. Geol. Survey.
T- 9	E. L. Young . . .	. . . . do	D	. . . .	6	Єr	717	11.0	. . do . .	J	D	. . . .	4	74	Supplies 5 people.
T-10	Calvin C. Clay . .	. . . .	D	. . . .	6	. . .	735	28.4	. . do . .	J	D	. . . .	11	18	
T-11	M. W. Parsons .	Carl Pace	D	365	6	Єr	734	85	. . . . . .	J	D, S	. . . .	4	100	Supplies 1 family and 30 head of stock. Casing: 6-in. to 210 ft.; none below.
T-12	James Murray . .	. . . . do	D	. . . .	6	Єr	695	. . . .	. . . . . .	J	D	. . . .	4	143	Supplies 1 family.

T-13	Henry C. Murray . .	Carl Pace	D	. . . .	6	Єr	692	. . . .	. . . . . .	J	D	. . . .	11	108	Supplies 1 family.
T-14	W. C. Matson	F. O. Pugh . . .	D	65	6	Єr	716	. . . .	. . . . . .	J	D	. . . .	11	66	Do.
T-15	Fratus V. Harper .	Carl Pace	D	99	6	Єr	733	. . . .	. . . . . .	J	D	. . . .	11	138	Do.
T-16	Elbert Brown	. . . . do	D	100	6	Єs (?)	709	60	1947	J	D, S	. . . .	11	162	Supplies 5 people and 20 head of stock. Casing: 6-in. to 100 ft.
T-17	Henry S. Hall . . .	. . . .	D	. . . .	6	Єs (?)	691	7.3	4-18-57	J	D	. . . .	11	96	Supplies 1 family.
T-18	Bessie Pembroke .	. . . .	Du	49.2	36	. . .	722	35.2	4-19-57	M	D	61	4	60	Do.
T-19	W. L. Hardy & Cole	. . . .	Du	28.3	36	. . .	758	8.2	. . do . .	M	D	60	25	50	Supplies 2 people.
T-20	Bert Cheatwood . .	. . . .	Du	21.8	36	ta	745	7.2	. . do . .	M	D	61	4	52	Supplies 1 family.
T-21	W. A. Coleman . .	Charles Austin .	D	124	6	Єr	746	40.5	4-18-57	M	N	61	18	10	
T-22	A. M. Cobb	Carl Pace	D	220	6	Єr	704	8	1948	J	D	. . . .	4	104	Supplies 3 people.
T-23	W. P. Love	Alabama-Pennsylvania Drilling Co.	D	101	6	Єr	718	25.4	5- 2-57	J	D	. . . .	4	130	Supplies 2 people. Casing: 6-in. to 86 ft.; none below.
T-24	E. Cobb	. . . .	D	96	6	Єr	713	10	1955	J	D	. . . .	4	96	Supplies 8 people.
T-25	--Roberts	Charles Austin .	D	69	6	Єr	740	24	3-15-57	J	D, S	. . . .	18	270	Supplies 4 people and 20 head of stock. Casing: 6-in. to 11 ft.; none below.
T-26	John W. Martin . . .	F. O. Pugh	D	110	6	Єr	747	67.3	1-21-57	J	D	. . . .	4	222	Supplies 7 people.
T-27	J. V. Busby	Carl Pace	D	80	6	Єr	721	50	. . . . . .	J	D, S	. . . .	4	188	Supplies 12 people and 5 head of stock. Casing: 6-in. to 40 ft.; none below.
T-28	T. F. Martin	. . . .	Du	. . . .	. . . .	Єr	722	23.0	1-21-57	M	D	60	11	200	Supplies 1 person.
T-29	W. M. McClain . .	Carl Pace	D	93	6	Єr	729	. . . .	. . . . . .	C	D, S	60	11	206	Supplies 3 people and 1 head of stock.
T-30	Fannie Cole	Abernathy Well Drillers.	D	80	6	Єr	746	45.6	1-23-57	J	D, S	. . . .	32	116	Supplies 10 people. Casing: 6-in. to 65 ft.; none below.
T-31	J. R. Busby	Carl Pace	D	93	6	Єr	728	40	1942	J	D, S	. . . .	4	168	Supplies 6 people and 2 head of stock. Casing: 6-in. to 22 ft.; none below.
T-32	Shirley Bell	. . . .	Spr	. . . .	. . . .	Єr	700	. . . .	. . . . . .	F	D	64	11	136	Measured flow 98 gpm on 7-26-57.
T-33	James Pollack . . .	. . . .	D	70	6	Єr	697	17	. . . . . .	T	D	. . . .	18	208	Supplies 1 family.
T-34	Shirley Bell	. . . .	D	219	6	Єr	692	15.2	1-23-57	M	D	63	11	386	Sulfurous.
T-35	. . . . do	. . . .	D	113	6	Єr	692	18	9- -55	J	D	. . . .	4	290	Supplies 1 person. Casing: 6-in. to 11 ft.; none below.
T-36	James Pollack . . .	Carl Pace	D	245	6	. . .	701	70	1954	T	D	. . . .	18	168	Supplies 1 family. Casing: 6-in. to 13 ft.; none below.
T-37	W. C. Harris	. . . .	Du	28	36	Єr	692	8.9	5- 7-57	J	D	. . . .	4	4	Supplies 3 people. Water contains iron.
T-38	Fred Cobb	. . . .	Du	36	36	Єr	696	9.5	5- 2-57	M	D	61	4	36	Supplies 5 people.
T-39	W. E. White	Charles Austin	D	50	6	Єr	682	.0	. . do . .	J	D	. . . .	4	84	Supplies 2 people. Casing: 6-in. to 50 ft.; none below.

Table 1. --Records of wells and springs in Calhoun County, Ala. --Continued

Well or spring No.	Owner	Driller	Type	Depth of well (feet)	Diameter of well (inches)	Water-bearing formation	Altitude of land surface (feet)	Water level		Method of lift	Use of water	Field determinations			Remarks
								Above (+) or below land surface (feet)	Date of measurement			Temperature (°F)	Chloride (ppm)	Hardness as CaCO$_3$ (ppm)	
T-40	W. M. Smith	Carl Pace	D	80	6	Єs	727	. . . .	. . . . . .	J	D	. . . .	4	176	Supplies 2 people.
T-41	May Branner . . .	Charles Austin .	D	92	6	. . .	728	18	1955	J	D	. . . .	4	22	
T-42	E. E. Roberts . .	. . . .	Du	50	36	Єr (?)	714	14.3	4-19-57	M	D	60	75	98	Supplies 1 family.
-4	J. W. Brannon . .	Alabama-Pennsylvania Drilling Co.	D	208	6	ta (?)	780	81.1	4-26-57	J	D	. . . .	4	18	Supplies 1 house. Water contains iron. Casing: 6-in. to 150 ft.; none below.
T-44	J. E. Houck	. . . .	Spr	. . . .	. . . .	Єs	687	. . . .	. . . . . .	F	N	. . . .	. . . .	. . . .	Measured flow 54 gpm on 10-25-57.
T-45	Fratus Harper . .	. . . .	Spr	. . . .	. . . .	Єs	684	. . . .	. . . . . .	F	S	61	. . . .	. . . .	Known as East Cottaguilla Springs. Measured flow 28 gpm on 10-25-57.
46	. . . . do	. . . .	Spr	. . .	. . . .	Єs	685	. . . .	10-25-57	F	S	61	4	114	Known as Upper Harper Spring. Measured flow 81 gpm on 10-25-57.
T-47	. . . do	. . . .	Spr	. . . .	. . . .	Єs	683	. . . .	. . . . . .	F	S	61	4	108	Known as Lower Harper Springs. Measured flow 58 gpm on 10-25-57.
T-48	J. D. Cole	. . . .	Spr	. . . .	. . . .	ta	750	. . . .	. . . . . .	F	D	56	4	40	Supplies 1 family. Measured flow 9 gpm on 11-1-57.
T-49	W. A. Owens . . .	. . . .	Spr	. . . .	. . . .	ta	733	. . . .	. . . . . .	F	D	58	. . . .	54	Measured flow 1 gpm on 11-1-57.
T-50	Marion Whiteside .	. . . .	Spr	. . . .	. . . .	ta	700	. . . .	. . . . . .	F	D	63	4	44	Known as Whiteside Spring. Measured flow ½ gpm on 11-1-57.
T-51	Bert Cheatwood . .	. . . .	Spr	. . . .	. . . .	ta	776	. . . .	. . . . . .	F	R	. . . .	. . . .	. . . .	Known as Bert Lakes. Measured flow 35 gpm on 10-24-57.
T-52	J. F. Hyatt	. . . .	Spr	. . . .	. . . .	Єs	680	. . . .	. . . . . .	F	D, S	63	4	150	Flows from enlarged fracture opening. Measured flow 283 gpm on 10-24-57.
T-53	Joe Polland	. . . .	Spr	. . . .	. . . .	Єw	690	. . . .	. . . . . .	F	S	. . . .	4	56	Estimated flow 5 gpm on 10-22-57.
T-54	J. J. Pollock . . .	. . . .	Spr	. . . .	. . . .	Єs (?)	675	. . . .	. . . . . .	F	S	63	4	114	Known as Callandar Spring. Measured flow 54 gpm on 10-23-57.
T-55	W. C. Harris . . .	. . . .	Spr	. . . .	. . . .	Єc	658	. . . .	. . . . . .	F	N	61	4	108	Known as Crisswell Spring. Measured flow 18 gpm on 10-23-57.
T-56	. . . . do	. . . .	Spr	. . . .	. . . .	Єc	668	. . . .	. . . . . .	F	R, S	. . . .	. . . .	. . . .	Supplies Harris Lake.

T-57	George Whitlock and Nathanial Gay.	. . . .	Spr	. . . .	. . . .	Ꞓw	880	. . . .	. . . . . .	F	D, S	63	4	10	Estimated flow 1 gpm on 10-23-57.
T-58	Albert Williams . .	. . . .	Spr	. . . .	. . . .	Ꞓs	663	. . . .	. . . . . .	F	S	60	4	94	Known as Seven Springs. Measured flow 969 gpm on 10-23-57.
T-59	Sam Holland	. . . .	Spr	. . . .	. . . .	Ꞓr	661	. . . .	. . . . . .	F	S	59	4	94	Measured flow 143 gpm on 12-5-57.
T-60	. . . . do	. . . .	Spr	. . . .	. . . .	Ꞓr	658	. . . .	. . . . . .	F	N	61	4	86	Measured flow 83 gpm on 12-5-57.
T-61	L. E. Cobb	. . . .	Spr	. . . .	. . . .	Ꞓr	654	. . . .	. . . . . .	F	S	. . . .	. . . .	. . . .	Measured flow 43 gpm on 10-23-57.
T-62	J. L. Bain	. . . .	Spr	. . . .	. . . .	Ꞓr	691	. . . .	. . . . . .	F	D	60	. . . .	60	Supplies 3 people. Measured flow 150 gpm on 12-5-57.
U- 1	--Daniel	John H. Watts . .	Du	50	. . . .	ta	778	36.2	4-27-57	J	D	61	4	124	Water contains iron.
U- 2	Gentry Houch . . .	Alabama-Pennsylvania Drilling Co.	D	150	6	ta	770	. . . .	. . . . . .	J	S	. . . .	4	64	Casing: 6-in. to 140 ft.; none below.
U- 3	Fred Hughes . . .	Carl Pace	D	79	6	. . .	764	38.0	4-29-57	J	D	. . . .	4	154	Casing: 6-in. to 60 ft.; none below.
U- 4	L. M. Dean . . .	Abernathy Well Drillers.	D	103	6	Ꞓs	742	70.2	4-26-57	J	D	. . . .	4	220	Supplies 1 family. Casing: 6-in. to 103 ft.; none below.
U- 5	A. B. Roberts . .	Alabama-Pennsylvania Drilling Co.	D	100	6	Ꞓs	745	24.6	4-24-57	J	D	. . . .	4	98	Supplies 1 family. Casing: 6-in. to 40 ft.; none below.
U- 6	F. M. Turner . .	Abernathy Well Drillers.	D	180	6	Ꞓs	742	10	10- -56	J	D	. . . .	11	182	Supplies 1 family. Casing: 6-in. to 70 ft.; none below.
U- 7	C. W. Holley . .	Clyde Hurst . . .	D	71	6	Ꞓs	742	5.2	4-26-57	J	D	. . . .	18	86	Supplies 1 family. Casing: 6-in. to 65 ft.; none below.
U- 8	R. A. Ward	Alabama-Pennsylvania Drilling Co.	D	118	6	Ꞓs (?)	731	10	1954	J	D	. . . .	4	96	Supplies 1 family. Casing: 6-in. to 50 ft.; none below.
U- 9	Ray Murphy	Emmett Green . .	D	88.5	6	Ꞓs (?)	747	41.3	5-14-57	J	D, S	. . . .	25	142	Supplies 1 family and 10,000 turkeys. Casing: 6-in. to 88 ft.; none below.
U-10	J. O. Hamlin . .	. . . .	Du	35	36	Ꞓw	733	15.2	. . do . .	J	D	. . . .	4	96	Supplies 1 family.
U-11	J. L. Montgomery	Carl Pace	D	284	6	Ꞓr	695	. . . .	. . . . . .	J	D	. . . .	4	116	Supplies 2 families. Casing: 6-in. to 280 ft.; none below.
U-12	G. L. Johnson . . .	--Bright	D	263	6	Ꞓr	679	26.7	5-13-57	J	D	. . . .	. . . .	. . . .	Supplies 1 family.
U-13	B. F. Caffey	Carl Pace	D	190	6	Ꞓr	696	. . . .	. . . . . .	J	D	. . . .	4	156	Supplies 5 people.
U-14	American Legion Post 156.	. . . .	Du	25	36	Ꞓs	717	10.9	5- 7-57	J	. . .	. . . .	. . . .	. . . .	
U-15	Homer Couch	Alabama-Pennsylvania Drilling Co.	D	229	4	Ꞓr	662	12.3	5-13-57	J	D	. . . .	4	88	Supplies 2 people.
U-16	Herbert Cunningham	Carl Pace	D	100	6	Ꞓr	704	. . . .	. . . . . .	J	D, S	. . . .	. . . .	. . . .	Supplies 4 people and 30 head of stock.
U-17	E. E. G. Roberts . .	. . . . do	D	136	6	Ꞓs	756	. . . .	. . . . . .	J	D	. . . .	4	78	Supplies 5 people.
U-18	C. A. Bone	Abernathy Well Drillers.	D	183	6	Ꞓw	759	99.1	5-14-57	J	D	. . . .	4	34	Supplies 2 people.
U-19	Lewis Landers . . .	. . . . do	D	158	6	Ꞓw	750	79.7	. . do . .	J	D	. . . .	4	14	Supplies 5 people. Casing: 6-in. to 158 ft.; none below.

Table 1. --Records of wells and springs in Calhoun County, Ala. --Continued

Well or spring No.	Owner	Driller	Type	Depth of well (feet)	Diameter of well (inches)	Water-bearing formation	Altitude of land surface (feet)	Water level: Above (+) or below land surface (feet)	Water level: Date of measurement	Method of lift	Use of water	Field determinations: Temperature (°F)	Field determinations: Chloride (ppm)	Field determinations: Hardness as $CaCO_3$ (ppm)	Remarks
U-20	James Connell . . .	. . . .	D	. . . .	6	Ꞓw	729	46.4	5-21-57	J	D	. . . .	4	43	Supplies 3 people.
U-21	Harvey Faulkner . .	Charles Austin . .	D	190	6	Ꞓw	745	82.2	5-14-57	J	D	. . . .	11	16	Supplies 4 people. Casing: 6-in. to 175 ft.; none below.
U-22	D. H. Hughes	Carl Pace	D	230	6	Ꞓr	703	50	1953	J	D	. . . .	4	108	Supplies 4 people.
U-23	[illegible] A. Rogers	F. O. Pugh	D	120	6	Ꞓr	732	50	1954	J	D	. . . .	4	3	Supplies 3 people. Casing: 6-in. to 100 ft.; none below. Bedrock at 50 ft. below land surface.
U-24	Wain Bennett	. . . .	Du	44.5	30	Ꞓs	819	24.3	5-14-57	M	D	62	4	76	Supplies 5 people. Casing: 30-in. concrete to 24 ft.; none below.
U-25	Harmony Baptist Church Pastorium	Carl Pace	D	98	6	Ꞓr	716	. . . .	. . . . . .	J	D	. . . .	4	134	Supplies 10 people.
-26	D. R. Taylor	. . . . do	D	120	6	Ꞓr	684	60	1955	J	D	. . . .	11	1[illegible]4	Supplies 8 people. Casing: 6-in. to 120 ft.; none below.
-27	Harmony Baptist Church.	Walters Drilling Co.	D	104	6	Ꞓr	689	38.7	5-14-57	J	. . .	. . . .	4	50	Supplies church. Casing: 6-in. to 100 ft.; none below.
U-28	D. T. Wakeley . . .	. . . .	Du	47.8	30	Ꞓr	682	28.8	. . do . .	J	D	. . . .	11	72	Supplies 12 people. Supply inadequate during dry season.
U-29	Wallace Walker . .	Carl Pace	D	120	6	Ꞓr	662	38.1	. . do . .	J	D, S	. . . .	4	104	Supplies 5 people and 45 head of stock.
U-30	E. P. Francis . . .	. . . . do	D	265	6	Ꞓr	640	6.4	. . do . .	J	D, S	. . . .	4	38	Supplies 3 people and 55 head of stock. Casing: 6-in. to 30 ft.; none below.
U-31	H. E. Harrison . . .	Abernathy Well Drillers.	D	222	6	Ꞓr (?)	652	. . . .	. . . . . .	J	D	. . . .	11	102	Supplies 2 people.
U-32	G. R. Hooper	Carl Pace	D	129	6	Ꞓs	633	7	1951	J	D	. . . .	4	212	Supplies 7 people. Casing: 6-in. to 40 ft.; none below.
U-33	T. H. Ross	. . . .	Du	30	36	Ꞓs Ꞓw	662	10.2	5-14-57	M	D	61	4	104	Supplies 5 people.
U-34	W. C. Mayo	. . . .	Du	45.8	36	Ꞓs Ꞓw	707	29.8	. . do . .	J	D	. . . .	4	6	Supplies 2 people.
U-3	R. L. Faulkner . .	Shaddix Brothers	D	93	6	Ꞓs	733	14.0	. . do . .	J	D	. . . .	4	184	Supplies 2 people. Casing: 6-in. to 93 ft.; none below.
U-36	W. O. Turner	Carl Pace	D	105	6	Ꞓs	712	. . . .	. . . . . .	J	D	. . . .	4	120	Supplies 3 people. Casing: 6-in. to 85 ft.; none below.

U-37	R. J. Holley	. . . .	D	130	6	Єs	752	36.7	4-26-57	J	D	. . . .	11	146	Supplies 6 people.
U-38	R. H. Faulkner . . .	Abernathy Well Drillers.	D	108	6	Єs	750	36.0	. . do . .	J	D	. . . .	4	154	Supplies 4 people.
U-39	L. M. Ashley	Charles Austin . .	D	104	6	Єs	740	35.0	. . do . .	J	D	. . . .	4	164	Supplies 2 people.
U-40	J. C. Lett	Carl Pace	D	90	6	Єs	729	26.3	4-29-57	J	D	. . . .	4	186	Supplies 3 people. Casing: 6-in. to 90 ft.; none below.
U-41	William Murphy . . .	Abernathy Well Drillers.	D	130	6	Єs	742	35.7	. . do . .	J	D	. . . .	11	154	Supplies 1 family and store.
U-42	A. H. McLeod	Carl Pace	D	90	6	ta	732	. . . .	. . . . . .	J	D	. . . .	4	96	Supplies 2 people. Casing: 6-in. to 80 ft.; none below.
U-43	P. J. Sawyer	. . . . do	D	. . . .	6	ta	731	13.0	5-15-57	J	D	. . . .	4	70	Supplies 8 people.
U-44	T. G. McNaron . . .	. . . . do	D	87	6	Єs	751	9.3	. . do . .	J	D	. . . .	4	152	Supplies 4 people.
U-45	W. A. Jones	. . . .	Du	35.0	36	Єs	694	6.8	. . do . .	M	D	61	11	34	Supplies 3 people. Supply inadequate during dry season.
U-46	J. G. Riddle	Carl Pace	D	83	6	Єs	705	. . . .	. . . . . .	J	D, S	. . . .	11	94	Supplies 7 people and 10 head of stock.
U-47	Howard Riddle, Jr.	. . . . do	D	199	6	Єs	682	25.1	5-23-57	J	D	. . . .	11	142	Supplies 5 people.
U-48	H. S. Breazeal . . .	Clyde Hurst	D	100	6	Єs	663	25	1956	J	D	. . . .	11	132	Supplies service station.
U-49	J. T. Lee	. . . . do	D	110	6	Єc	710	22.7	5-22-57	J	D	. . . .	4	160	Supplies 8 people. Casing: 6-in. to 60 ft.; none below.
U-50	D. B. Curry and H. W. O'Dell.	F. O. Pugh	D	105	6	Єc	728	42.7	. . do . .	J	D	. . . .	4	136	Supplies 11 people. Casing: 6-in. to 99 ft.; none below.
U-51	J. W. Esters	Alabama-Pennsylvania Drilling Co.	D	78	6	Єr	681	6.1	. . do . .	J	D	. . . .	4	70	Supplies 3 people. Casing: 6-in. to 78 ft.; none below.
U-52	J. O. Dailey	Clyde Hurst . . .	D	78	6	Єc	691	9.5	. . do . .	J	D	. . . .	. . . .	. . . .	
U-53	Burt Skinner	Carl Pace	D	139	6	Єr	749	89	12- -56	J	D	. . . .	4	100	Supplies 3 people.
U-54	W. C. Dunston . . .	. . . . do	D	105	6	Єc	711	30	1953	J	D	. . . .	4	54	Supplies 6 people.
U-55	James Bingham . .	Clyde Hurst	D	201	6	Єc	719	40	10- -56	J	D	. . . .	4	142	Supplies 7 people.
U-56	H. V. Riddle	Carl Pace	D	188	6	ta	702	42.3	5-23-57	J	D	. . . .	4	14	Supplies 2 people.
U-57	Sam Turner	. . . .	Du	26.0	38	ta	674	18.2	2-27-57	M	D	61	4	66	Supplies 3 people.
U-58	W. C. Sprayberry	F. O. Pugh . . .	D	103	6	ЄO	723	76.2	2-13-57	J	D	. . . .	4	134	Supplies 11 people.
U-59	W. D. Faulk	Clyde Hurst . . .	D	145	6	ЄO	735	73.2	2-20-57	J	D	. . . .	4	118	Supplies 12 people. Casing: 6-in. to 145 ft.
U-60	W. C. Christian . .	. . . . do	D	125	6	ЄO	715	105	1955	J	D	. . . .	11	24	Supplies 3 people. Casing: 6-in. to 80 ft.; none below.
U-61	F. C. Cobb	Carl Pace	D	120	6	ЄO	690	70	. . do . .	J	D, S	. . . .	4	164	Supplies 9 people and 3 head of stock.
U-62	B. F. Chaffey, Sr.	. . . .	Spr	. . . .	. . . .	Єr	667	. . . .	. . . . . .	F	. . .	. . . .	. . . .	. . . .	
U-63	J. O. Bennett	. . . .	Spr	. . . .	. . . .	Єs	704	. . . .	. . . . . .	F	D	63	4	132	Measured flow 390 gpm on 10-24-57.

Table 1. --Records of wells and springs in Calhoun County, Ala. --Continued

Well or spring No.	Owner	Driller	Type	Depth of well (feet)	Diameter of well (inches)	Water-bearing formation	Altitude of land surface (feet)	Water level		Method of lift	Use of water	Field determinations			Remarks
								Above (+) or below land surface (feet)	Date of meas-urement			Temperature (°F)	Chloride (ppm)	Hardness as $CaCO_3$ (ppm)	
V- 1	Virgil Coker Tire Service.	Carl Pace	D	. . . .	. . . .	Єs	724	. . . .	. . . . . .	T	Ind	. . . .	32	138	
V- 2	Anniston Ice & Coal Co.	. . . .	D	. . . .	. . . .	Єs	714	. . . .	. . . . . .	T	Ind	. . . .	11	124	
V- 3	Alabama United Ice	. . . .	D	405	. . . .	Єs	716	. . . .	. . . . . .	T	N	. . . .	. . . .	. . . .	
V- 4	Home Ice Co.	Carl Pace	D	390	8	Єs	671	44.6	10- 2-56	T	Ind	64	11	240	
V- 5	The Model Laundry	. . . .	D	. . . .	. . . .	Єs	679	. . . .	. . . . . .	T	Ind	. . . .	11	180	
V- 6	James Lockridge . .	. . . .	D	68.8	6	Єw	843	54.3	7-27-56	J	D	. . . .	4	34	Supplies 5 people.
V- 7	Cecil Montgomery .	. . . .	D	. . . .	6	Єs	837	117.8	. . do . .	J	D	. . . .	11	130	Supplies 2 people.
V- 8	L. A. Lott	. . . .	D	190	6	Єs	792	135.0	5-21-57	T	D, S	. . . .	18	22	Supplies 6 people and 1 head of stock. Water contains iron.
V- 9	M. H. Holley	Alabama-Pennsylvania Drilling Co.	D	175	4	Єs	733	74.8	. . do . .	J	D	. . . .	11	38	Supplies 9 people. Casing: 4-in. to 42 ft.; none below.
V-10	W. C. Turner	Clyde Hurst . . .	D	162	6	Єc	688	16.6	5-22-57	J	D	. . . .	39	132	Supplies 2 people.
V-11	W. H. Rhodes	. . . .	D	64.5	6	Єc	683	6.3	. . do . .	N	N	. . . .	. . . .	. . . .	
V-12	A. C. Whitley	Alabama-Pennsylvania Drilling Co.	D	94	4	Єr	700	31.0	5-21-57	J	D, S	. . . .	4	20	Supplies 8 people and 5 head of stock. Casing: 4-in. to 90 ft.; none below.
V-13	D. D. Rhodes	Carl Pace	D	129	6	Єr	739	62.7	. . do . .	C	D	. . . .	4	110	Supplies 5 people.
V-14	J. W. Cook	F. O. Pugh	D	123	6	Єr	701	60.0	7-23-56	J	D	. . . .	4	116	Supplies 3 people. Well has been curbed for 3 years.
V-15	William Box	Carl Pace	D	56.1	6	Єr	714	29.6	7-27-56	N	N	. . . .	. . . .	. . . .	
V-16	Cleve G. Taylor . .	Walters Drilling Co.	D	192	6	Єr	744	. . . .	. . . . . .	J	D	. . . .	4	104	Supplies 6 people.
V-17	V. F. Sanders	F. O. Pugh	D	128	6	Єr	715	81.0	7-27-56	J	D	. . . .	4	124	Supplies 3 people.
V-18	C. N. Wood	Alabama-Pennsylvania Drilling Co.	D	165	6	Єs	784	100.2	7-26-56	J	D	. . . .	4	120	Supplies 4 people.
V-19	L. G. Sprayberry .	Abernathy Well Drillers.	D	310	6	Єs	803	142.4	7-27-56	C	D	. . . .	4	44	Supplies 10 people.

V-20	F. W. Meeks	Clyde Hurst . . .	D	151	6	Ꞓr	744	99.8	7-27-56	J	D	. . . .	4	36	Supplies 2 people. Casing: 6-in. to 151 ft.
V-21	W. M. Schroeder .	. . . .	D	334	6	Ꞓs	760	76.6	8- 3-56	J	D	. . . .	4	16	Supplies 7 people. Casing: 6-in. to 280 ft.; none below. Water contains iron.
V-22	J. B. Perry	Alabama-Pennsylvania Drilling Co.	D	110	5	Ꞓr	731	74.4	7-27-56	J	D	. . . .	4	120	Supplies 5 people.
V-23	Neal Bonds	Clyde Hurst . . .	D	177.3	6	Ꞓs	787	75.8	2-30-56	N	N	. . . .	. . . .	. . . .	
V-24	Hobson City	Carl Pace	D	260	6	Ꞓs	717	. . . .	. . . . . .	T	P	. . . .	4	96	Supplies town of 800 persons. Pumped at 200 gpm.
V-25	Vera Denham	. . . .	Du	30.8	48	Ꞓw	697	24.8	8- 3-56	M	D	. . . .	. . . .	. . . .	Supplies 3 people. Supply inadequate during fall.
V-26	H. L. Whiteside . .	Carl Pace	D	165	6	Ꞓs	673	20	1956	J	D, S	. . . .	4	94	Supplies 7 people and 3 head of stock.
V-27	W. F. Evans	--Bryant	D	100.6	6	Ꞓr	640	26.2	8- 3-56	T	D	. . . .	4	102	Supplies 4 people and service station. Casing: 6-in. to 100 ft.
V-28	Lee Brothers Foundry.	Carl Pace	D	421	8	Ꞓr	. . . .	. . . .	. . . . . .	J	Ind	. . . .	4	114	Test pumped at 220 gpm in 1950.
V-29	C. D. Pettus	Abernathy Well Drillers.	D	140	6	Ꞓr	667	40.3	7-27-56	J	D, S	. . . .	4	74	Supplies 4 people and 1,000 chickens.
V-30	A. M. Law	Alabama-Pennsylvania Drilling Co.	D	117.8	4	Ꞓr	705	95.2	8- 3-56	J	D	61.5	4	128	Supplies 5 people. Casing: 4-in. to 120 ft.; slotted to 120 ft.
V-31	A. M. Chilton	Carl Pace	D	103	6	Ꞓr	689	50	. . . . . .	J	D	. . . .	4	108	Supplies 5 people.
V-32	W. P. Nisbett	. . . .	D	60	6	Ꞓc	669	48	5- -56	C	D	. . . .	4	116	Supplies 3 people. Supply inadequate during dry season.
V-33	M. G. Truitt	Carl Pace	D	85	6	Ꞓc	659	35	1945	J	D, S	. . . .	6	64	Supplies 6 people and 2 head of stock. Casing: 6-in. to 85 ft.
V-34	W. C. Hudson	. . . . do	D	120	6	Ꞓc	672	43.8	7-27-56	J	D	. . . .	11	192	Supplies 11 people and church.
V-35	L. H. Kitchens . . .	Clyde Hurst	D	. . . .	5.5	ꞒO	701	. . . .	. . . . . .	J	D	. . . .	4	116	Supplies 3 people.
V-36	Clyde Hurst	. . . . do	D	178.9	5.5	ꞒO	744	122.7	. . . . . .	N	N	. . . .	. . . .	. . . .	
V-37	G. B. Waits	Carl Pace	D	180	6	ꞒO	712	80	. . . . . .	J	D	. . . .	4	20	Supplies 5 people. Water contains iron.
V-38	Gray Guthrie	Clyde Hurst . . .	D	110	5.5	ꞒO	674	59.7	2-27-57	J	D	. . . .	4	140	Supplies 6 people.
V-39	James W. Holley . .	. . . . do	D	112	5.5	ꞒO	665	47	7- -56	J	D	. . . .	4	112	Supplies 7 people.
V-40	Henry Mitchell	. . . . do	D	105.5	5.5	ꞒO	682	62.7	7-31-56	N	N	. . . .	. . . .	. . . .	
V-41	William McComb . .	. . . .	Du	30.3	48	ꞒO	639	27.9	. . do . .	M	D	62	4	. . . .	Supplies 7 people.
V-42	W. A. Neal	F. O. Pugh	D	110	6	ꞒO	686	50	3- -56	J	D, S	. . . .	4	10	Supplies 11 people and 100 head of stock.
V-43	G. B. Hollis	Carl Pace	D	125	6	ꞒO	693	65	. . . . . .	J	D	. . . .	4	16	Supplies 2 people.
V-44	Harry G. Davis . . .	. . . .	Du	20.7	48	Ꞓc	628	16.4	8- 3-56	M	D	64	25	48	Supplies 3 people.
V-45	. . . . do	. . . .	Spr	. . . .	. . . .	Ꞓc	622	. . . .	. . . . . .	F	Irr D	61	4	110	Measured flow 1,700 gpm. Supplies 5 people.

Table 1. --Records of wells and springs in Calhoun County, Ala. --Continued

Well or spring No.	Owner	Driller	Type	Depth of well (feet)	Diameter of well (inches)	Water-bearing formation	Altitude of land surface (feet)	Water level		Method of lift	Use of water	Field determinations			Remarks
								Above (+) or below land surface (feet)	Date of meas-urement			Temperature (°F)	Chloride (ppm)	Hardness as $CaCO_3$ (ppm)	
*V-46	City of Oxford	. . . .	Spr	. . . .	. . . .	Єs	611	. . . .	. . . . . .	F	D, R	. . . .	4	96	Supplies Oxford Lake and swimming pool.
V-47	Odell Bennett	Carl Pace	D	79.9	6	Єs	613	12.4	8- 2-56	T	D	. . . .	4	38	Supplies 7 people.
*V-48	Southern Mills Corp.	. . . .	Spr	. . . .	. . . .	Єs	. . . .	. . . .	. . . . . .	F	Ind	63	11	138	Measured flow 430 gpm on 7-16-57.
V-49	Elsie Patty	. . . .	D	136	6	Єr	606	20	. . . . . .	J	D	. . . .	4	50	Supplies 13 people and fish pond. Water becomes muddy after heavy rains.
V-50	James F. Nelson . .	. . . .	D	162.2	6	Єc	612	14.8	8- 2-56	J	D	. . . .	4	200	Supplies 7 people.
V-51	T. E. Cobb	. . . .	D	178.3	6	Єc	661	57.2	. . do . .	J	N	. . . .	4	120	
V-52	W. L. Snider	. . . .	Du	56.4	48	ЄO	654	49.7	8- 1-56	M	D	61	18	176	Supplies 8 people.
V-53	G. H. Gable	. . . .	Du	75.4	36	ЄO	680	61.1	. . do . .	M	D	62	4	22	Supplies 3 people.
V-54	Maud Huston	. . . .	Du	24.5	42	ЄO	621	20.5	. . do . .	C	D	. . . .	11	62	Do.
V-55	Albert Hubert	. . . .	Du	35.7	42	ЄO	636	33.0	. . do . .	C	D	. . . .	11	78	Supplies 7 people.
V-56	Harrel Prater	Charles Austin .	D	63.8	6	ЄO	630	25.5	. . do . .	J	D	. . . .	11	110	Supplies 2 people. Casing: 6-in. to 65 ft.
V-57	Hollis Gray	. . . . do	D	65.6	6	ЄO	627	22.8	. . do . .	J	D	. . . .	4	46	Supplies 2 people. Casing: 6-in. to 66 ft.
V-58	W. A. Newsome . . .	. . . .	Du	30.8	36	ta	643	20.9	. . do . .	M	D	62	18	24	Supplies 2 people.
V-59	Lee Gidley	. . . .	D	230	6-	ta	653	. . . .	. . . . . .	J	D	. . . .	4	16	Supplies 8 people.
V-60	William McComb . .	. . . .	Du	39.7	48	ta	667	33.3	7-31-56	M	D	63	4	16	Supplies 12 people.
V-61	U. S. Government . .	. . . .	Spr	. . . .	. . . .	Єw	. . . .	. . . .	. . . . . .	F	P	. . . .	. . . .	. . . .	Water supply for Camp Zinn. Measured flow 130 gpm on 10-22-57.
V-62	C. D. Weldon	. . . .	Spr	. . . .	. . . .	Єw	948	. . . .	. . . . . .	F	N	62	. . . .	62	Supplies several families. Measured flow 4 gpm on 10-22-57.
V-63	U. S. Government . .	. . . .	Spr	. . . .	. . . .	Єw	. . . .	. . . .	. . . . . .	F	R	. . . .	. . . .	. . . .	Supplies lower lake at Camp Zinn. Measured flow 27 gpm on 10-22-57.
V-64	Boy Scouts of America.	. . . .	Spr	. . . .	. . . .	Єw	884	. . . .	. . . . . .	F	D	. . . .	. . . .	10	Supplies caretaker's house at Camp Zinn.
V-65	Holly Springs Church	. . . .	Spr	. . . .	. . . .	Єw	843	. . . .	. . . . . .	F	N	. . . .	. . . .	. . . .	Measured flow 2 gpm on 10-22-57.
V-66	J. R. Houston	. . . .	Spr	. . . .	. . . .	Єw	780	. . . .	. . . . . .	F	D	56	4	20	Known as Golden Springs. Measured flow 4 gpm on 10-22-57. Water contains iron.

W- 1	Alabama Pipe Co. Union Foundry Div.	Carl Pace	D	595	8	Ꞓr	714	100	1-30-56	T	Ind	. . . .	. . . .	. . . .	Cased to 560 ft. Reported drawdown of 30 ft. after pumping 275 gpm for 12 hours.
W- 2	Kilby Steel	. . . . do	D	288	8	Ꞓr	729	. . . .	. . . . . .	T	N	. . . .	. . . .	. . . .	Well pumped at rate of 550 gpm.
W- 3	J. W. Leatherwood	. . . .	Du	59.6	36	ꞒO	732	9.7	10-24-56	N	N	. . . .	. . . .	. . . .	
W- 4	C. A. McCullars . .	Clyde Hurst . . .	D	95	6	ꞒO	708	75.5	. . do . .	J	D	. . . .	4	148	Supplies 12 people.
W- 5	G. J. Hornsby	. . . .	Du	52.7	30	ꞒO	698	49.4	10-23-56	J	D	. . . .	11	. . . .	Supplies 3 people.
W- 6	L. F. Cooper	Abernathy Well Drillers.	D	147	6	ꞒO	736	107.7	10-24-56	J	D	. . . .	4	108	Do.
W- 7	D. V. Heron	. . . .	Du	51.2	24	ꞒO	666	39.9	. . do . .	M	D	. . . .	. . . .	. . . .	Supplies 6 people.
W- 8	W. B. Copeland . . .	. . . .	Du	30.0	36	ꞒO	661	26.1	. . do . .	M	D	. . . .	. . . .	. . . .	Do.
W- 9	W. G. Holder	. . . .	Du	36.0	36	ꞒO	657	33.2	. . do . .	J	D	. . . .	4	58	Supplies 8 people.
W-10	H. A. Perkerson and John S. Turner.	. . . .	Du	36.8	36	Ꞓr	619	30.2	10- 9-56	M	D	62	11	102	Supplies 5 people.
W-11	W. W. Galdin	. . . .	Du	31.5	42	Ꞓr	615	27.6	10- 4-56	J	D	. . . .	4	52	Supplies 6 people. Water contains iron.
*W-12	City of Anniston . . .	. . . .	Spr	. . . .	. . . .	Ꞓw	596	. . . .	. . . . . .	F	P	64	2	108	Municipal water supply for Anniston. Measured flow 19,443 gpm on 6-20-57.
W-13	John Bussey	. . . .	Du	50.5	36	Ꞓr	630	44.0	10- 9-56	N	N	. . . .	. . . .	. . . .	
W-14	W. K. Didby	Morris Green . .	D	180	5	Ꞓc	621	44.3	. . do . .	J	D	. . . .	4	128	Supplies 10 people.
W-15	James M. Digby . . .	--Bryant	D	100.8	6	ꞒO	641	71.5	10-11-56	J	D	. . . .	4	148	Supplies 5 people.
W-16	W. M. Mahaffey . . .	F. O. Pugh . . .	D	78	6	ꞒO	645	51.6	10-10-56	J	N	. . . .	. . . .	. . . .	
W-17	Guy Pierce	Abernathy Well Drillers.	D	134	6	ꞒO	626	79.7	. . do . .	J	D	. . . .	4	66	Supplies 4 people.
W-18	J. W. Brown	Morris Green . .	D	97	6	ꞒO	632	83	7- -55	J	D	. . . .	4	114	Supplies 2 people. Casing: 6-in. to 85 ft.; none below. Supply inadequate.
W-19	J. F. Wycoff	. . . .	Du	57.3	36	Ꞓc	620	52.6	10-11-56	N	N	. . . .	. . . .	. . . .	
W-20	National Gypsum . .	Adams-Massey Co.	D	350	12	Ꞓr Ꞓs	592	18.6	9- 9-55	T	Ind	62	. . . .	. . . .	Casing: 12-in. to 60 ft.; none below. Well test pumped at 770 gpm.
W-21	. . . . do	. . . . do	D	355	6	Ꞓr Ꞓs	590	26.3	11- 7-55	N	N	. . . .	. . . .	. . . .	Supply inadequate for industrial use. Casing: 6-in. to 82 ft.; none below.
W-22	. . . . do	. . . . do	D	. . . .	6	Ꞓr Ꞓs	592	. . . .	. . . . . .	. . .	. . .	. . . .	. . . .	. . . .	
W-23	Huey Reed	. . . .	D	108.1	6	Ꞓr	600	25.4	10-11-56	J	D	. . . .	4	134	Supplies 3 people and church.
W-24	W. J. Humphrey . .	. . . .	D	119.3	6	Ꞓs	656	87.3	10-16-56	N	N	. . . .	. . . .	. . . .	
W-25	M. H. Gidley	. . . .	Du	21.8	36	Ꞓs	611	18.4	10-11-56	J	D	. . . .	4	14	Supplies 4 people.
W-26	--Miller	. . . .	Du	37.8	36	Ꞓs	604	32.5	. . do . .	M	D	62	4	24	Supplies 11 people.

Table 1.--Records of wells and springs in Calhoun County, Ala.--Continued

Well or spring No.	Owner	Driller	Type	Depth of well (feet)	Diameter of well (inches)	Water-bearing formation	Altitude of land surface (feet)	Water level		Method of lift	Use of water	Field determinations			Remarks
								Above (+) or below land surface (feet)	Date of measurement			Temperature (°F)	Chloride (ppm)	Hardness as $CaCO_3$ (ppm)	
W-27	P. L. Carter	Carl Pace	D	62.1	6	Єs	627	54.6	10-11-56	M	D	. . . .	. . . .	. . . .	Supplies 5 people.
W-28	Roy Cleckler	. . . .	Du	41.4	30	Єs	616	35.4	. . do . .	M	D	61	4	58	Supplies 3 people.
W-29	D. C. Grizzard . .	F. O. Pugh	D	80	6	Єs	618	40	9- -56	J	D, S	. . . .	4	. . . .	Supplies 11 people and 50 head of stock.
W-30	E. R. Montgomery	. . . .	Du	34.9	42	Єs	654	23.0	8- 3-56	M	N	63	4	8	
W-31	Ernest E. Hutto . .	F. O. Pugh	D	105.2	6	Єs	608	16.6	. . do . .	J	D, S	. . . .	4	146	Supplies 2 people and 8 head of stock. Casing: 6-in. to 114 ft.
X- 1	C. O. Owens	. . . .	Du	43.4	30	ЄO	613	19.4	2-13-57	N	N	. . . .	. . . .	. . . .	
X- 2	Alfred Cospar . . .	. . . .	D	56	6	ЄO	617	3.7	. . do . .	J	D	. . . .	11	154	Supplies 5 people.
X- 3	W. H. Alldredge .	F. O. Pugh	D	50	6	ЄO	621	10	9- -55	J	D	. . . .	4	296	Supplies 4 people.
X- 4	J. L. Willbanks, Sr.	. . . .	D	78	6	ЄO	635	. . . .	. . . . . .	J	D, S	. . . .	11	148	Supplies 2 people and 8 head of stock.
X- 5	K. C. Pettus	. . . .	D	. . . .	. . .	ЄO	641	. . . .	. . . . . .	J	D, S	. . . .	46	268	
X- 6	R. S. Gilbert . . .	Carl Pace	D	125	6	ЄO	651	19.7	2-13-57	J	D, S	. . . .	4	94	Supplies 3 people and 35 head of stock. Casing: 6-in. to 40 ft.
X- 7	E. R. Campbell . .	F. O. Pugh . . .	D	74	6	ЄO	634	20	7- -55	J	D	. . . .	4	162	Supplies 10 people. Casing: 6-in. to 20 ft. Driller's log: 0-18 soil; 18-74 rock, dark gray.
X- 8	Henry Hale	Shaddix Brothers	D	23.4	6	ЄO	637	15.9	2-13-57	M	D	64	4	136	Supplies 6 people. Muddy after rains.
*X- 9	--Everett	. . . .	Spr	. . . .	. . .	ЄO	639	. . . .	. . . . . .	F	D, S	65	4	144	Measured flow 224 gpm on 7-16-57.
X-10	J. L. Lambert . .	Abernathy Well Drillers.	D	135	6	ЄO	617	11.7	12-20-56	J	D	. . . .	11	226	Supplies 7 people. Casing: 6-in. to 19 ft.; none below.
X-11	E. W. Murphy . .	F. O. Pugh . . .	D	170	6	ЄO	614	11.5	. . do . .	J	D	. . . .	11	206	Supplies 5 people.
X-12	V. R. Bullock . .	Carl Pace	D	75	6	ЄO	628	20	1954	J	D	. . . .	11	200	Supplies 4 people.
X-13	J. O. Peters . . .	. . . . do	D	186	6	ЄO	640	40	1956	T	D, S	. . . .	4	206	Supplies 4 people and 3 head of stock. Casing: 6-in. to 47 ft.; none below.
X-14	Vennard Williams	. . . .	D	. . . .	. . .	ЄO	631	37.5	12-20-56	J	D	. . . .	4	204	Supplies 20 people.
X-15	M. B. Jackson . . .	Abernathy Well Drillers.	D	83	. . .	ЄO	629	. . . .	. . . . . .	J	D	. . . .	11	196	Supplies 4 people.

X-16	James A. Martin . .	Abernathy Well Drillers.	D	159	. . .	ЄO	632	. . . .	. .	J	D	. . . .	4	42	Supplies 11 people.
X-17	Edward Brown	Alabama-Pennsylvania Drilling Co.	D	79	6	ЄO	601	11.0	12-21-56	J	D	. . .	4	190	Supplies 2 people. Casing: 6-in. to 60 ft.; none below.
X-18	Robert Williams . .	. . . .	D	45.2	6	Єc	614	26.9	10- 5-56	J	D	. . . .	4	130	Supplies 2 people.
X-19	Norman D. Gannon .	. . . .	Spr	. . . .	. . .	ЄO	617	. . . .	. . . . . .	F	D	63	4	136	Measured flow 67 gpm on 7-16-57.
X-20	Alabama State Dept. of Conservation.	. . . .	Spr	. . . .	. . .	ЄO	618	. . . .	. . . . . .	F	D Ind	63	11	134	Measured flow 561 gpm on 7-16-57. Supplies family and State Fish Hatchery.
X-21	U. S. Government .	. . . .	Spr	. . . .	. . .	ЄO	611	. . . .	. . . . . .	F	R	. . .	4	124	Measured flow 280 gpm on 7-26-57. Supplies swimming pool.
X-22	Albert L. Robertson	Abernathy Well Drillers.	D	135	6	Єr	660	73.7	10- 4-56	J	D	. . . .	4	196	Supplies 27 people.
X-23	U. C. and Grady Miller.	. . . . do	D	150.2	6	Єr	696	111.4	. . do . .	J	D	. . . .	4	348	Supplies 19 people.
X-24	H. T. Trap	. . . . do	D	107.3	6	Єc	633	58.6	10- 8-56	J	D	. . . .	11	132	Supplies 3 people.
X-25	A. J. Thompson . .	. . . .	D	69.2	6	Єr	634	58.8	. . do . .	J	D	. . . .	4	174	Supplies 4 people.
X-26	S. H. Anderson . .	. . . .	D	69.5	6	Єr	612	33.9	10- 4-56	J	D	. . . .	4	114	Supplies 4 people and 1 service station.
X-27	L. O. Pilkington . .	F. O. Pugh . . .	D	65	6	Єc	607	27.2	10- 9-56	J	D	. . . .	11	148	Supplies 5 people.
X-28	L. G. Hewett	. . . . do	D	59.7	6	Єr	604	25.9	10- 8-56	J	D	. . . .	11	154	Supplies 4 people.
X-29	E. Bentley . . .	. . . .	D	61.1	6	Єc	608	38.1	10- 4-56	J	D	. . . .	4	188	Supplies 5 people.
X-30	Lillie Rouse	Abernathy Well Drillers.	D	105	6	Єc	610	34.2	10- 8-56	J	D	. . . .	4	228	Supplies 6 people.
X-31	Dewey Holmes . . .	. . . .	D	108.2	6	Єc	593	19.6	10- 4-56	J	D	. . . .	4	192	Supplies 3 people.
X-32	Steeley Hydrick . .	--Woodward . . .	D	26.2	6	Єc	580	12.3	10- 5-56	C	D	. . . .	4	162	Supplies 6 people.
X-33	Dewey Holmes . . .	Carl Pace	D	87	6	Єr	605	. . . .	. . . . . .	J	D	. . . .	4	146	Supplies 18 people.
X-34	Milton Williams . .	Hayes Drilling Co.	D	137	6	Єr	624	50	1956	M	D	. . . .	11	158	Supplies 4 people.
X-35	J. A. Grogin	--Bryan	D	81	6	ЄO	593	30	1953	J	D	. . . .	4	130	Supplies 7 people.
X-36	James Maddux . . .	Carl Pace	D	95	6	ЄO	610	104.0	12-18-56	J	D	. . . .	4	172	Supplies 5 people.
X-37	John A. Green . .	. . . . do	D	100	6	ЄO	575	. . . .	. . . . . .	J	D	. . . .	11	246	Supplies 2 families.
X-38	E. Pace, Sr.	. . . . do	D	75	6	ЄO	573	35.7	12-18-56	N	N	. . . .	. . . .	. . . .	
X-39	Gene Pace	. . . . do	D	75	6	ЄO	574	36	. . . . . .	J	D	. . . .	4	306	Do.
X-40	E. S. Pace	. . . . do	D	75	6	ЄO	568	36.9	12-18-56	J	D,S	. . . .	11	170	Supplies 12 people and 16 head of stock.
X-41	D. W. Dulaney . . .	Dalrymple Well Drillers.	D	145	6	ЄO	579	30	1956	T	D	. . . .	18	168	Casing: 6-in. to 60 ft.; none below. Supplies 12 people.
X-42	W. P. Cain	F. O. Pugh	D	103	6	ЄO	628	72.1	10- 9-56	J	D	. . . .	4	152	Supplies 2 people. Casing: 6-in. to 63 ft.; none below.

Table 1. --Records of wells and springs in Calhoun County, Ala. --Continued

Well or spring No.	Owner	Driller	Type	Depth of well (feet)	Diameter of well (inches)	Water-bearing formation	Altitude of land surface (feet)	Water level		Method of lift	Use of water	Field determinations			Remarks
								Above (+) or below land surface (feet)	Date of measurement			Temperature (°F)	Chloride (ppm)	Hardness as $CaCO_3$ (ppm)	
X-43	J. C. Courtney . . .	. . . .	D	65	6	ЄO	598	29.6	10- 9-56	J	D	. . . .	11	114	Supplies 14 people.
X-44	J. R. Harris	Carl Pace	D	146	6	ЄO	598	33.0	. . do . .	J	D	. . . .	4	212	Supplies 14 people. Casing: 6-in. to 46 ft.; none below.
X-45	--Miller	Abernathy Well Drillers.	D	200	6	ЄO	682	. . . .	. . . . . .	. . .	. . .	. . . .	. . . .	. . . .	Supply inadequate for domestic use.
X-46	E. W. Wilson	. . . .	D	128.6	6	ЄO	650	71.2	10- 9-56	M	D	63	11	166	Supplies 27 people.
X-47	--Johnson	. . . .	D	80.5	6	ЄO	636	67.4	10-10-56	M	D	. . . .	. . . .	. . . .	Supplies 8 people.
X-48	Dewey Sexton	Carl Pace	D	141.3	6	ЄO	671	106.0	10- 5-56	J	D	. . . .	4	148	Supplies 5 people.
X-49	W. B. Trammell .	. . . .	D	198	6	ЄO	687	120	. . . . . .	J	D	. . . .	4	160	Supplies 2 people.
X-50	B. Winningham	F. O. Pugh	D	104.7	6	ЄO	652	85.0	10- 8-56	J	D	. . . .	4	164	Supplies 7 people. Casing: 6-in. to 100 ft.; none below.
Y-1	Harris	. . . .	Du	41.3	48	t	682	34.8	8- 1-56	M	D	60	4	18	Supplies 5 people.
Y- 2	Alice Chitwood . . .	. . . .	Du	49.3	48	ta	678	39.4	. . do . .	M	D	61	18	14	Supplies 3 people.
Y- 3	Charlie Davis . . .	. . . .	Du	33.1	48	ЄO	644	15.9	. . do . .	M	D	62	25	66	Supplies 6 people.
Y- 4	M. C. Chitwood .	. . . .	D	144.4	5.5	ЄO	660	52.5	. . do . .	J	D	. . . .	4	64	Supplies 10 people.
Y- 5	Hugh W. Leemaster	Abernathy Well Drillers.	D	97.8	6	ЄO	675	67.0	. . do . .	J	D	. . . .	4	82	Supplies 6 people.

Table 2.--Chemical analyses of water from selected springs in Calhoun County, Ala.
(In parts per million)

Spring No.: Numbers correspond with those in plate 1 and table 1.

Water-bearing formations: Ꞓw, Weisner formation; Ꞓs, Shady dolomite;
Ꞓc, Conasauga formation; ꞒO, Cambrian or Ordovician dolomite;
Ob, Newala limestone; Ocy, Little Oak limestone.

Spring No.	Owner	Water-bearing formation	Date of collection	Temperature (°F)	Iron (Fe) *	Calcium (Ca)	Magnesium (Mg)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Hardness as $CaCO_3$ Total	Hardness as $CaCO_3$ Non-carbonate	Specific conductance (micromhos at 25°C)	pH
F- 42	T. V. and J. H. Read . .	Ob	12-18-56	62	0.00	30	8.3	126	0	2.0	1.5	0.1	0.6	109	6	201	7.8
F- 55	Phillip Held	Ob	. . do .	64	.00	41	3.5	140	0	2.2	1.5	.1	.0	117	2	225	7.7
F- 68	H. T. Scarbrough	Ob	. . do . .	62	.00	32	9.7	144	0	1.5	1.5	.1	.0	120	2	225	7.4
H- 22	W. H. Wellborn	Ꞓc	. . do . .	62	.01	26	13	143	0	2.5	2.0	.1	.8	118	2	225	7.6
L- 1	Thomas Martin	Ꞓc	. . do . .	65	.00	21	12	124	0	4.5	1.0	.1	.0	102	0	198	7.7
L- 53	A. F. Glass	Ꞓc	12-21-56	64	.00	34	16	181	0	2.0	2.0	.1	2.1	151	2	282	7.6
M- 91	McCullars' Estate	ꞒO	12-18-56	64	.00	25	13	144	0	1.5	1.0	.1	.4	116	0	221	8.0
M-111	Alexandria Methodist Church.	Ꞓc	12-21-56	62	.00	28	16	164	0	1.8	2.5	.1	2.3	136	2	258	7.7
N- 27	R. L. Winn	Ocy	. . do .	63	.01	43	3.8	149	0	5	2.5	.2	.0	123	1	241	7.9
V- 46	City of Oxford	Ꞓs	12-20-56	62	.00	19	11	113	0	.5	4.0	.1	1.0	92	0	180	7.
V- 48	Southern Mills Corp. . . .	Ꞓs	12-18-56	63	.00	28	15	155	0	3.8	5.0	.2	5.5	132	4	260	7.6
W- 12	City of Anniston	Ꞓw	6-19-57	. . .	.15	14	16	128	0	1.8	1.8	.1	2.0	101	0	202	7.8
X- 9	--Everett.	ꞒO	12-21-56	64	.00	26	16	158	0	1.[illegible]	2.0	.1	.6	131	2	239	8.0

* In solution at time of analysis.

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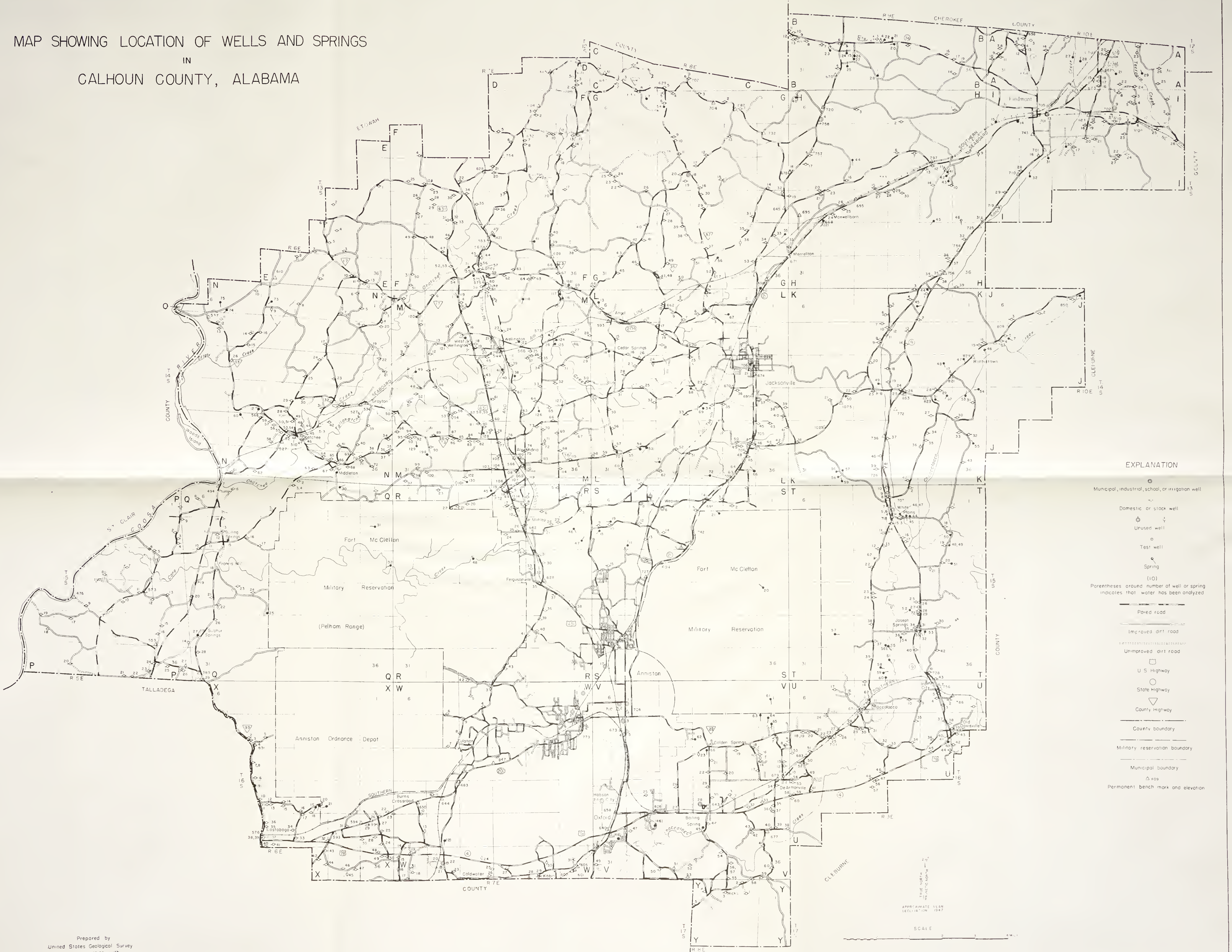
MAP SHOWING LOCATION OF WELLS AND SPRINGS
IN
CALHOUN COUNTY, ALABAMA



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